and economic growth.

Murray said recent hearings conducted in the West by a select Senate water resources committec. "brought out the need for g | feet," Murray said. He added: vigorous program of new (project) starts to gear us up to current

and future requirements." Mansifeld said in a separate in Mansfield raid in a separate in development. terview ha was "sure the Congress" "Eternal vigilance on the part

next year will pay more attention to the West is the price demanded to the needs of our own people in the fielding natural resources and give priority to our own development is in a carrier in a carrier in a carrier in a carrier in the said, "Athan nobody will aces after us in this field except of the

Mansfield, a member of the Senald Coreign Relations Commit-tee (1917) he Eisenhower adminit

Senate Coreign Relations Committee, administration of the Eisenhower administration of the Spenate Congress, will continue to a support public power that is the backbone of Tuture reclamation

"Elimination of new starts as urged by the Eisenhower administration, would have had that ef-

"The West and the rest of the country can thank the Congress for calling a halt to this downgrading of our natural resource

of the West is the price demanded

"In Congress we will press the fight to start construction of Yellowiall Dam in Montana. and to press for the full development of the Columbia River and its tributaries just as we have suported the full development of the Colorado

expansion."

river was 103 per cent of the average and discharge of Rock Creek near Red Lodge was 82 per cent. Prairie streams in northern Montana showed some gains. They remained low in southern Montana where precipitation was light.



MADISON CHANNEL COMPLETED, The Arm madison Channel Complete a project unparallely in afficient engineering annals Thursday with a quiet formal cereproty, approving the reconstruction of the Madison River change in though the rockslide caused by the terrific earthquake of Augista. The lake formed by the rockslide is shown behind the slide here with the new channel for the famed fishing stream cut through the right side of the slide. (Kay Widmer photo)

UÁKE LAKE (AP) - A speboard of consultants tramped ough four inches of snow Thursafternoon at Quake Dam, n gave unanimous approval of work done in controlling a

gust's earthquakes. long with the board was Maj. . : Keith R. Barney, Missouri er-division engineer for the ps of Engineers. He lauded the k of his subordinates in builda'deep channel through the antic' quake-caused earthslide eliminate any possible threat of d water breaking through.

d threat arising from last

Work Is Complete

orps of Engineers officials said ir work, started more than two nths ago, is complete. The cost estimated in excess of one

he slide thundered across the dison Canyon when an earthke toppled the side of an 8,000mountain across a crowdedl apground. This formed a dam oss the Madison River.

y cutting an 80-foot channel the slide, Quake Lake formed ind the slide was reduced from en miles long to four and imindment cut to 47,000 acre feet water from 79,000 acre feet. channel slope was cut from per cent an average of 3 per t permitting a more orderly r≩of water.

"Nice Fishing Lake"

It's a nice fishing lake now," FGeneral Barney, "Instead of obstant flood threat." He spoke televised ceremonies atop the

s to the permanancy of the le, engineers offered no guess to time, but said it will erode wly over the years, but that re won't be any flash floods. lith completion of the engirs' work, under the direction Lt. Col. Walter Hogrefe of Rivale, N.D., the site was turned r to the Forest Service. Hog-

Rismarck Tribune Basin Authority

The president of the Montana Farmers Union called Thursday for creation of a public corporation such as a Missouri Basin Authority for operation of the sprawle ing Missouri River watershed.

Leonard Kenfield, Great Falls, said such an authority, patterned after the Tennessee Valley Authority, was necessary for the development of Missouri Basin resources for the benefit of all the people living in the area drained by the Big Muddy and its many tributaries.

"There are efforts being made to take away your God-given resources." Kenfield said.

HE NOTED that even as it was anowing in Bismarck the snow pack was forming in the Rockies, providing a source of water for the Missouri River for next year.

At the same time. Kenfield charged, special interest groups are trying to tie up water rights on public domain lands in the Montana Rockies which would in turn tie up water for the Missouri Riv-

He mentioned railroads, bank corporations and speculative land corporations.

IN ADDITION to conflicts over water for downstream purposes, Kenfield said, there were basic conflicts in the upper reaches of the Missouri over water for irrigation and public versus private

Kenfield called for joint efforts by Farmers Union members not only in the field of agriculture, but also in the development of the nation's natural resources, particularly in the Missouri Basin.

He said there was plenty of water in the Missouri watershed if it is handled properly, but that there is a water shortage now because the water resource in the Missouri Basin is being squan-

112 Great Falls Tribune Tuesday, Nov. 10, 1959

Nexa Spring Plan of Forest Service

night of Aug. 17 stimulated nation-lof the land.

MISSOULA - The Forest Service wide interest; stated the official. Tebbe related that the Forest plans to reopen the Madison Can He said no piece of real estate in Service has a task force in the you to the public next spring the countries some building as area now to delineate boundaries Charles L. Tebbe; chief Region 1 the scene of the Madison Canyon of the geologic area; plan the forester, informed the Missoula Ki-temblor and stide. Thousands have needed access to points of interwanis Club.

Deen turned lines by the roadest; determine the sanitary and blocks that the proportion of the millions who wait safety pressign the interest and the necessary in the way of maps, litsummer and thereafter will want to scientific value that has aftached erature and other interpretive see the nearby earthquake and to the area, the Forest Service has service.

drawing power in themselves, ac-will be managed to preserve the an important addition to the hiscording to the speaker. Already, inherent values and to give the tory of Montana. He said the tembers and a veritable field day.

In important addition to the history of Montana. He said the tembers and blor had a profound effect on Hebsightseers, students, campers and gen Lake. tilting its base so that

ilasgov Courier 10-27-59 Glasgow, Mont. WOULD MAKE ENGINEERS REMOTE

The Bismarck, North Dakota, Tribune comments upon a rumored move to close the Garrison district of the Corps of Engineers at Riverdale, North Dakota.

· "Elimination of the Garrison district would mean that there would be no representative of authority, and no engineer's office, north of Omaha, which would amount to all but total divorcement of the Corps of Engineers from the upper Missouri basin," the Tribune declares.

There is no gainsaying the truth of this statement. Corps activities, and they are many and varied, that extend to the eastern slopes of the Continental divide, would be administered hundreds of miles away.

The North Dakota newspaper states that this move to abolish the Garrison district, of which the Fort Peck area is a part, is being proposed as a so-called economy. measure. It points out that actually, most saving would only be "book" savings, that there would be little actual reduction of employees and that savings would be offset by higher travel and other costs.

This area has had a close relationship with the Corps for more than 25 years. Civic leaders here watched the closing of the Fort Peck district office and its removal, to a more remote location without objection, feeling, that as citizens, they should recognize the benefits of consolidation. Some felt at that time, without airing their views publicly, that Fort Peck itself would have, been a more central site for the district than Riverdale is.

Omaha is indeed remote and will leave us to deal with officers and bureaucrats only remotely acquainted with our country and its problems. There are many flood control

see the heary teathquare and determined to give it a special geo.

The physical phenomena, such logic area designation, the regional earthquake of Aug. 17 triggered at so the slide and fault lines, have forester noted. He explained that it series of events that have become sightseers, students, campers and gen Lake, tilting its base, so, that Nature's spectacular action the picknickers as well as other users there were successive; surges of water, first one way, and then the other. Then, he said, it funneled to the dam end of the lake like a battering ram and swept over the top. He added that some figure the wall of water was three feet high but there is evidence suggesting it might have been up to 20 feet

That water coursed down the canyon in a torrent, according to the speaker. He reported that cars were picked up, rolled over, twisted and broken to bits; campers lost their lives survivors, convinced that the dam had broken, tried desperately in the darkness to get their families onto higher ground. Continuing he related that 45 to 60, minutes later, there came a frightening, deafening roat; a choking cloud of dust filled the canyon; a terrific wind, reportedly so strong as literally to tear the clothes off people, began to blow, and the water in the river, so recently rushing downstream, suddenly was flowing upstream. Such habpenings, in the dark of night were stunning in their effect on people startled from sleep, he said.

The official stated that no one knew how many campers were buried. He said the 2,800 requests received initially by the American Red Cross from all over the country dwindled as time passed until now it is presumed that 19 were 19 Dead Under Slide

ssessing the project were Dr. G. Straub, University of Minota hydraulic engineer; I. C. ele, noted construction engineer rock and earth dams from cland, Calif., and Edward Burl of Upperville, Va., retired

ineer for the corps. he slide is the burying ground: an estimated 19 persons who e; trapped in their crowded? inground when the mountain fell. Bodies of nine others e recovered.

spokesman for the Corps of gineers said workmen found dence of bodies while cutting channel. He said the force of earthfall may have pulverized human caught beneath it.

18 Feet During August Quake

WASHINGTON (AP)—The government said Monday it has found a four-mile stretch, of highway, near Yellowstone Park that sank more than 18 feet as a result of the earthquake there last August. The Coast and Geodetic Survey. said this was the greatest drop ever measured after an earthquake in this country. At A special survey; team moved into the area soon after the Aug. 17 quake. It covered on foot 110 miles of highway between West Yellowstone and Sappington, Mont. The team reported the biggest drop was about four miles south-east of Hobgeh Dam, where the earth tronors hit hardest. The

maximum settlement there was

14.36 feet.

of Three Forks to be forced to go all the way to Omaha to make their wants known is not logical or helpful. The Corps will lose many of its contacts in Montana

and its close touch with us if this move is made. Its conjugand is remote enough as it is Missouri Ice

Jam Reported

Corps of Engineers here said Saturday it had a report of an ice jam causing some flooding on the Missouri River at Townsend, The corps said the situation did not appear serious. It said there was water in the basement of a rest home at Townsend and some cattle had been stranded on an island. At Townsend there was only

nearby Helena reported 16 inches on the ground. in the ground.

If The corps said Garrison (Service Was free of ice but the the Missouri River was frozen at Williston and the Yellowstone arozen at Sidney, Mont., Saturday

about three inches of snow, but

that about 250 people had been trapped above the slide and below. a section of the highway that had disappeared into Hebgen Lake, he related. Rescue forces went to work immediately building telours around several lost and damaged sections of the highway so that by 9:30 p.m. all of those trapped had been freed.

Engineer Warns Soil Studies Necessary To Insure Safety of Madison Quake Dam

SAN FRANCISCO - Scientific soil studies must be continued on the huge natural dam across the Madison River, formed by the Montana killer quake last Aug. 17 killing seven residents of the tiny the Madison River slide is much near Yellowstone Park, before it can be declared absolutely safe, tinued. a prominent Bay Area engineer warned Thursday.

Stabley F, Gizienski, chief of the earth dams section of the national soil engineering firm: of Woodward, Clyde, Sherard & Associates, made this statement before members of the San Francisco Post, Society of American Military Engineers.

Gizienski's consulting engineering firm was retained at the Montana earthquake scene by the U.S. Corps of Engineers shortly after the disaster to make a preliminary study of the allde area and nearby Hebren Dam.

Tentative investigation, Gizienski? explained; indicates that the Madison Canyon slide will remain stable against rapid failure caused by water accumulating upstream from the slide mass.

The earthquake tumbled some 43,000,000 cubic yards of rocky debris across the valley forming a natural dam, which has formed a lake containing approximately 80,-000 acre-feet of water.

""However," he explained, "we must remember the disaster which occurred in the

gave way there on May 18, 1927, the soil and rock composition of village of 'Kelly, Wyb.," her com different - and probably more

The Gros Ventre slide occurred up the Gros Ventre slide. on June 23, 1925, the engineer saids in a remote valley under the shadow of the Grand Teton, near the tiny village in Jackson Hole: Wvo. It is believed an 'earthquake also triggered the slide.

"A portion of Sheep Mountain collapsed, spilling; several million blocking the Gros Ventre River," he said.

"The top of the natural dam". thus formed stood some 180 feet above the stream bed. The base of the slide from the downstream to upstream lide measured more than 8,000 feet.

"A lake four miles long and conaining some 65,000 acre-feet of water, came within five feet of the top of the slide in the first 12 days," Gizienski added.

Unlike the Madison River slide. the water never spilled over the top of the Gros Ventre blockade. "Nearly and years later, on May 18, 1927, without warning the huge natural damil suddenly crumbled. The tiny town of Kelly, five miles downstream, was destroyed.

"A 20-foot wall of water crashed through the small settlement of Wilson, Wyo., another 20-miles beyond, some two hours later, causing widespread devastation," Gizienski continued.

To prevent, such a disaster ever occurring again in the area, the local district of the U.S. Corps of Engineers are continuing studies as recommended by Gizienski's firm.

Woodward, Clyde, Sherard & As-

Gros Ventre Valley some 40- has been flowing over the spillway miles south of Yellowstone at about a million gallons per min-"A similarly formed natural dam uter. Gizlenski said. He explained stable - than the material making

---Gizienski joined the North-ern California office of Wood- ward, Clydes Sherard & Assocales in Oakland 41/2 years ago. 4 Of The of the vilb

Prior to that he served as civil engineer for the Missouri River Division of the U.S. Corps of Engiyards of shale, limestone and sand. neers, and was also head of founstone into the valley, completely dation and embankment design for the Omaha District of the Corps.

Flood Danger at Townsend Independent Record Helma, Mont. 11-23-56 Inspected by Engineers

an inspection of the area Satur- Peck specialists. day at the request of Gov. J. Newak and Best are complet-Hugo Aronson.

He said Townsend Mayor Had- downstream areas.

A two-man team of army corpyley Rice and Sen. Lester Goodengineers specialists from Fort win (D-Broadwater) will confer Peck arrived in Townsend today with Captain Nowak and E. V. to inspect possible flood danger Best of the army engineers to from a four-mile ice backup of determine the extent of the flood Missouri river water south of threat and measures to be taken wn. in the event of an emergency. Maj. Robert A. Keyes, state Michael Massa, Broadwater county civil defense director, said the commission chairman, also is team was called in after he made scheduled to meet with the Fort

ing an inspection of a number. Keyes said there is no immed of Missouri river danger areas, diate danger to townspeople un-including floods along the Galless temperatures take a sudden lotin river which could pose 2 lip, freezing up the channel. |threat to Townsend and other

Corps' Work At Fort Peck Features State Activity

Fort Peck dam. This projectthe largest earth fill dam in the construction in 1933.

This was part of a report issued at the annual convention of the Montana Reclamation association in Butte this week by Lt. Col. Walter Hogrefe, district engineer of the U.S. Army Engineer district, Garrison, with head-

quarters in Riverdale, N. D. The fall of 1950 finds the pro

Montana construction activity ous units of powerhouse equip and sent it crashing during 1959 by the Army's Corps ment will be completed. When river and up the pass of the of Engineers east of the Conti- finished the overall cost of the mountain on the outer north nental Divide was highlighted by Fort Peck project will be about side. It covered the tree Creek the expenditure of about \$6,000,- \$160,000,000. Annual project bene-000 on the second powerplant at fits will range in the neighborhood of \$12 million.

Other work in Montana during United States-has commanded a the calendar year consisted of substantial portion of public at local flood protection projects at Missouri River division engineer tention since the beginning of its Glendive, Billings, West Yellowstone and Ennis, and flood protection studies at Twin Bridges, headquarters and ordered to the Three Forks, Browning, Great Falls, Miles City and Billings.

Only three of these protection projects-those at Glendive, and Billings on the Yellowstone river, and Madison canyon - were

campground and took the lives of nine persons and perhaps caused the deaths of 21 more who are listed as missing.

Maj. Gen. Keith R. Barney, for the Corps, flew at once to the disaster zone from his Omana scene, Colonel Hogrefe and a work party of engineers and technicians from the district headquarters at Riverdale, N.D., and the area office at Fort Peck.

A field office was set up in brought under construction and West Yellowstone (later at Encompleted during the calendar his) on Aug. 22 and from that

uamaged 'uuring last :August's earthquake, recommended that a 24-hour watch he posted on the downstream side of the Madison River slide.

This watch, Gizienski explained. would be to alert for seepage and possible movement of the slide mass. The soils engineering firm also recommended that careful observations by means of a system of wells be made of subsurface water flow under the natural dam to determine it there are signs of

weakening vorille 1 off Meanwhile books Army Engineers have cut at 30 foot wide spill-way, lined with heavy rock 7 to 10 feet thicks over the top of one side of the Madison River Dam, "Water

percent-of-completion mark. The include the more ambitious protwo new 40,000 kilowatt units be- posals for the protection of the been completed and the floed ing installed are scheduled to go city from the Yellowstone with a threat erased. It had been feared that Hebon the line in 1961, bringing the system of dikes. 000,000.

During the work season of 1959, cost of about \$164,930. the No. 2 tunnel liner and the by the Corps in Montana during ranches and farms below. Eagle-Western combination of the past year was the spillway Colorado was making good pro- across the earthquake - triggered been totaled, it is estimated the gress on second plant's super- mountainslide in Madison river cost of the slide spillway job will structure. Last year E. V. Lane canyon in the southwestern part exceed one and one-half-million corporation completed the pow- of the state, erhouse foundations and control. The quake of Aug. 17-18 cut. Fort Peck is an area office shaft alterations.

200 additional contracts for vari- mouth of the Madison river gorge at Riverdale.

work on it is at about the 60 bolstering a bridge and did not worked around the clock until a

capacity of Fort Peck hydro- At Glendive the Corps built 2.23 electric generation to 165,000 kw. miles of levee to contain the Yel- pany structure seven miles up-Total cost of the plant is esti- lowstone floods, such as the one stream front the slide, would give mated to be in excess of \$27.1 that threatened during the spring way. With the added waters that

50-foot deep slide spillway had

gen dam, a Montana Power comof 1959, at a government contract had backed up teamid the quake cost of about \$164,930. slide it was reared that a flood Chicago Bridge and Iron com By far the most spectacular would roar downstream, causing pany installed a large share of and bizarre project completed tremendous adamage to towns,

Although final figures haven't

loose the underpinning of an 8,000 under the Corps of Engineer's During the coming year, about foot-high mountain just above the Garrison district headquartered

Cole Presents City's Stake In Flood Control Project

to match federal funds used in the Sheridan flood control project is in error, says a memorandum presented to councilmen last night by City Manager Maurice E. Cole.

"Apparently there exists some misunderstanding as to the ase signment of costs," the memor-

gjandum says.

And it continues: "The idea prevails that the city is required to pay a percentage of the total cost in about the same manner as federal funds are matched with local funds in various federal aid projects such as hospitals, highways, sewage treatment plants, etc. This belief gives rise to the fear that should the project be expanded or construction costs increase by reason of inflation, the cost to the city would be correspondingly increased and that the financial obligation of the city would then be beyond local control."

Stating that this is in error and fear is unwarranted, the memo: says that all construction work including excavation wastes for filling abandoned stream channels and low lying marginal areas is financed entirely from federal

appropriations.

The city will furnish the land for the project, and be responsible for water and sewer utility expenses. Private owned telephone, electric and gas utilities which must be moved will be entirely in the hands of companies involved and will not^{ire}constitute a municipal ex-

The first stage, Ft. road to the vicifity of Kendrick Park and a section of Little Goose from the confldence to the railroad bridge, is the only division of the project upon' which the city's is currently working. Total "estimated" local costs, and this is a maximum estimate which the city hopes to

undercut, is \$86,730. Of the total estimate \$10,000 is private utility expense not borne

Belief that the city is required municipal utility funds. A total of \$16,880, which is also to be borne by the city is for contingencies, engineering and supervision.

Actually the maximum estimate of city responsibility is \$76,630. But as of Nov. 1, the city secured 79 per cent of the total square foot area needed for the first stage, with an additional seven and a quarter per cent promised free of charge. Total expenditure on the first stage to date is only \$4,270.74.

The memo says: "Thus it is shown that the liability of the city is limited and city costs are incurred only once. It is also shown that the amount of city cost is directly related to the willingness and ability of the people of Sheridan to help with the project.'

Quake Helpers Bismarck Tribune Return to Jobs

RIVERDALE—All of the 50 or more Garrison District staff members who saw service on the earthquake slide spillway job at West! Yellowstone and Ennis. Mont., field offices returned to the Riverdale home base last week. The field office was opened at West' Yellowstone on Aug. 22. Late in September the office was moved to Ennis, downstream from the slide on Madison River, where it continued to operate until its closure on Oct. 30.

The Garrison District group was headed by Lt. Col. Walter W. Hogrefe, district engineer, H. F. Michel, head of the engineering division, was in charge of the slide engineering work and H. G. Hutchins supervised the construction end of the project.

Phase one of the work was marked by the cutting of a 14-foot channel and lining it with 10-foot rock armor. This channel went into service Sept. 10. Erosion, however, on the downstream end of the slide caused an engineering alianda that manult

Danger Is Over

Chief of Engineers Pleased With Work

OMAHA (AP), -, There is, no longer danger of flooding in the Madison River Valley of Montana below earthquake damaged Hebgen Dam, Mali Gen., Keith R. Barney, Missouri + River. Division engineer, reported Saturday.

Gen. Barney Feturied during the night from inspecting the completed emigrations flood control project made liecessary when an earthquakettast Aug 3110 broke loose a rock slide and sealed off the valley below the dam.

A huge body of water which engineers, 'dubbed, 'Quake' Lake' built up behind the rock side and the chance that it might let go suddenly and cause down yalley flooding set engineers to work carving a floodway over the sur-face of the slide to carry off Quake Lake waters smoothly without gorging. Water first over-

topped the slide Sept. 10.

Gen. Barney [and Wendell E. Johnson, chief of the division's engineering section; the division's engineering section; that at West Yellowstone, Montawith the board of the private engineering consultants employed. ants employed and reported they were pleased with the work. Gen. Barney said the emergency flood control operation is now iterminated and equipment proved oil. The area engineer softer bet up at Ennis, Mont., the work site has been closed.

Budgeters

QUAKE LAKE (AP) - A spe cial board of consultants trampet through four inches of snow Thurs day calternoon, at Quake Dam ther ave unanimous approval of the work done in controlling it flood threat arising from las August's earthquakes

Along with the board was Mai Gent Keith R. Barney, Missour River division engineer for the Corps of Engineers, He lauded the work of his subordinates in build ing a deep channel through the gigantic quake-caused earthslide to eliminate any possible threat of flood water breaking through my

Work is Complete Corps of Engineers officials said their work, started more than two months ago, is complete. The cost was estimated in excess of one million dollars of hid across the

quake toppled the side of an 8,000 foot mountain across a crowded camparound, This formed a dam across the Madison River.

By cutting an 80-foot channel into the slide, Quake Lake formed behind the slide was reduced from seven; miles' long to four and impoundment cut to 47,000 acre feet of water from 79,000 acre feet. The chaunel slope was cut from 10 per cent an average of 3 per cent, permitting a more orderly flow of water. and he of it is made of the manual state of the man

"It's a nice fishing lake, now,"
said General Barney, "instead of
a constant flood threat." He spoke at televised ceremonies atop the

As to the permanancy, of the slide, engineers offered; no guess as to time, but said it will erode slowly over the years, but that there won't be any flash floods! "With completion of the engineers' work, under the diffection of Lt. Col. Walter Hogrefe of Riv erdale, N.D., the sife was turned over to the Forest Service. Hogrefe is the corps Garrison district engineer.

19 Dead Under Slide

s available and will come from

Six Counties Receive Income From Leasing

Billings Gazette
HELENA (AP) — Six Montana
counties were sent checks totaling
\$14,915 Wednesday for shares of
lease income" from land in the
Fort Peck flood control project.

State Treasurer Horace F. Casey said the money is 75 per cent of the Army Engineers' annual income from leases on the land. The percentage apportioned to the counties is set by federal law.

Phillips County got the largest check Wednesday, \$4,506. McCone County got \$2,685, Petroleum \$2,426, Garfield \$2,371, Valley \$1,624 and Fergus \$1,302.

Quake Lake above. This phase two of the job was completed Oct. 29.

Three members of a special four-man consultants board pronounced the channel adequate following an inspection on Oct 20. The board was accompanied by Maj. Gen. Keith R. Barney Missouri River Division chief for the Corps of Engineers. He, Wendell Johnson, division engineering chief, and F. B. Slichter, engineering chief for the chief of engineers, praised Col. Hogrefe and staff members for "an extremely difficult job well done".

By Saturday morning, Oct. 31, the field office at Ennis had been closed and the last corpsman was on his way home. He was Henry C. Schmidt, who had been dispatcher for transportation vehicles. Other late-starters-for-home were R. J. Thomas, chief clerk and Wayne Likes, auditor.

taha reclamation projects and water evaporation control tests.

Murray is chairman of the Senate Interior Committee, which handles such legislation.

In a letter to Budge Director Maurice H. Stans: To asked bureau approval of money for Yellowtail Dam and the East Bench Unit of the Missouri River Basin Project.

Between four and six million

Between four and six million dollars should be appropriated for the year, beginning July 1 for a construction start on Yellowtail Dam in the Big Horn River, Murray said,

The East Bench Units he wrote, "should be allocated funds to permit the maximum rate of efficient construction."

Research in how to reduce evaporation from these how reservoirs, Murray striped telephones full financial supports, because of lits conservabled value to the reduce matter there; if drought stricken areas such as eastern Montana."

Steele, noted construction engineer for rock and earth dams from Oakland, Calif., and Edward Burfell of Upperville, Va., retired engineer for the corps.

well of Upperville, Va., retired engineer for the corps.

The slide is the burying ground for an estimated 19 persons who were trapped in their crowded campground, when the conditions of the corps of

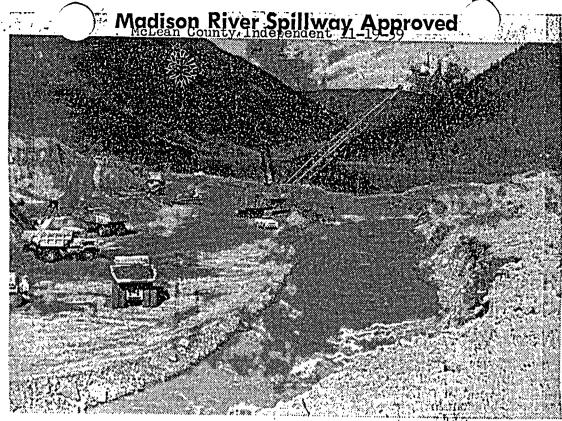
were recovered. The Corps of Eiglineers Said working found evidence of bodies while cutting the channel. He said the force of the carthfall may have pulverized any human caught beneath it.

Flood Control Completion

RIVERDALE-Three flood protection projects, two on the Yellowstone and one on the Little Missouri river, are on the verge of completion by Garrison District of the Army Engineers and will be turned over to local interests likely by Dec. 1, according to Lt. Col. Walter W. Hogrefe, Garrison District Engineer.

The emergency bank protection job at Billings, Mont., on the Yellowstone is being completed by the F. L. Flynn Co., of Billings under an \$18,025 contract. Albert and Anderson Construction Co. of Miles City built the Glendive levee system on the Yellowstone river under a \$171,000 contract.

The Marmarth, N. D., flood protection levee system on the Little Missouri river was built by the Oster Construction Co. of Hazen under a \$137,000 contract.



Paradise Dam Group Spokesman Says

Hearing on Clark Fork-Flathead To Effect Western Montana's F

MISSOULA (UPI) - A hearing this key resource intelligently used of seasonal and cyclic industry. here Dec. 15 on proposed legislation to contribute to our prosperity." When the lumber market slumps, to construct a large multi-purpose dam in western Montana has been secretary of the interior to select falls off, or suspends, the whole described as "most important in the most desirable site in a 10-mile state drags." its effect on the future of western stretch of the Flathead and Clark Montana."

and probably at least one Republi- and Mike Mansfield (D-Mont). while Paradise is on the Clark Fork can member of the Senate Interior Murray is chairman of the Senate Committee will conduct the hear- Interior Committee to which the junction.

head River basin.

Sen. Ernest Gruening (D-Alaska) Sens. James E. Murray (D-Mont) bill has been referred.

Under consideration is a proposal | Companion legislation has been Krowles would have an installed to construct either Knowles or Par-introduced in the House by Rep. capacity of 512,000 kilowatts and adise Dam in the Clark Fork-Flat- Lee Metcalf (D-Mont), western dis- generate 697,000 kilowatts of prime trict congressman. This is now be- power. Paradise would have an

The Senate bill authorizing the everyone suffers. When mining

Fork rivers is co-sponsored by is on the Flathead River just above

The Corps of Engineers said In Missoula, Paul K. Harlow, fore the House Interior Committee ultimate installed can a city of

Private consultants and high officials of the Army's Corps of Engineers place the stamprofcapprovalion the spillwayabuilt across the earthquakerslide in Madison River Canyon: Montana, following an inspection tour just after completion of the work on October 29.

THE PHOTO above shows section of the new spillway "gorge" which ranges in depth from 50 to 80 feet and the system used in cutting the channel - use of a huge dragline and the action of the speedy water. The slide spillway job was begun on August 22 by a Garrison district disaster team and completed on October 29. The channel was built to diminish the flood threat from quake lake which was quickly backed up behind the slide. The earthquake, fatal to 29 person, ocovered on Aveniet 17.

whelming support of such water resource development for our area.

In his statement, Harlow said: "Far too long, now, western Monwe will be showing that we want land has suffered from the swings 252,000.

Estimated cost of Knowles would be \$234,627,000 and Paradise \$492,-

52,000. Harlow said a project like Para-Harlow said a project like Paradise Dam—roughly equivalent to two Hungry Horse dams—the power it produces and the water it stores, can make a substantial and continuing court button to our prosperity."

Murray's bill also provides that the full amount of at site power produced by the dam would be available for use in Montana. For more efficiency, however, power production would be the grated with the Bonneville system.

Letcalt, in commenting on the bills said, "The dams diready built including Hungry, Horse, have project conclusively that the substantial benefits flow to the people and to private enterprise."

He pointed, out Hungry, Horse

He pointed out Hungry Horse Dam brought immediate dividends to its area in the Anaconda aluminum plant at Columbia Falls and to areas farther away like the Victor Chemical Works west of Butte.

For Diversion

project "will not necessarily come executive vice president; and Fred by itself just because it is feasible. Sanborn, Great Falls, Mont., secresound desirable and necessary," Mark Andrews, Republican nation- tary-treasurer. al committeeman and Cass county director on the Garrison Diversion Conservancy District board, told the annual convention of Western Sugar Beet Growers at their annual convention here Thursday.

"We must have an awakening of

Officers of the association were are C. Einar Johnson, Warren, tion projects in foreign lands, An-Minn., president; Worth Larson, drews said "surely the building of Chinook, Mont., vice president;

FARGO-The Garrison Diversion E. We Rising. Washington. D.C..

Stressing the great economic importance of the Diversion project to the area, Andrews said there is danger that it could be

"We must recognize that there all our citizens to the danger that are those selfish interests who they face in losing their-right to claim all the water of the Missouri their share of the waters of the river for their own use, even to Missouri river by delays in au-the extent of refuting their solemn thorizing .the _project," Andrews agreements. We must recognize the said. "This water," he added, effect of the unrealistic and short "may mean our economic survival. sighted view of many opponent. We, as North Dakotanis indst convince the nation that our project is entitled to be next."

While not opposed to the foreign reelected at the convention. They aid program developing reclamatreclamation projects here in America will help to strengthen our own economy on which the whole world is slowly becoming more depend-

> Most of the program was devoted to speeches and discussions of various farm problems.

> Clark Jenkins, Fargo, agricultural agent for the Greater · North Dakota Assn., spoke at the afternoon meeting, filling in for Rep. Don Short (R-ND), who had to remain in Washington.

Jenkins said North Dakota grain farmers are underemployed, and suggested that livestock enterprises would help solve the prob-

He said mechanization has greatly increased the grain farmers' capacities and allowed more leisure time. And he said raising livestock would bring increased income to North Dakota farmers, and give them something to do with the time they are saving with mechanical help.

Reservoir Storage Tops '58 Minot Daily News Missouri river main stem reser-

voirs were drawn down heavily during August but at the end of the month held 2.5 million acre feet more storage than at the end of August, 1958.

Thus, some gradual progress toward filling the relatively new

reservoir system up to desired operating levels for more efficient public selvice continues to be made in the face of adverse runoff conditions that have existed for a period of five years, the Reservoir Control Conter at Oma-ha, Neb., reported.

Cut-Won't

Sen. Milton R. Young (R-ND) says he belief Mae 2½ per cent cut from original proposals will not adversely affect North Dakota projects in the hat he was passed Thursday by Congress over President Eisenhower's yeto. President Eisenhower's veto.

a telegram to the Associated Press 72-23, or 8 more than the required here, noted that the Corps of Army two hirds.

Engineers will be permitted within Twelve Republished 60 limits to divert funds from one of Democrats in the Senate vote to its projects to another it necessary override. The Republicans were

over the veto provider \$415,000 for Ind. Cooper, of Ky. Dworshak of the Garrison diversion-investigating program in North Dakota. This total is with 21/2 per cent snipped from the original proposal.

Other North Dakota sitems covered in the bill include \$5,050,000—minus 2½ per cent—for, continuing work on Garrison Dantife illood control on the Heart River near Mandan, \$800,000 min 1202 per cent, and for flood control on the Red River near Fargo, \$386,000 minus 21/2 per-cent.

originally proposed for the Heart Schoeppel of Kan., Scott of Pa., River project, with \$550,000 carried Young of N.D. over from last year, would be suf- On the losing side were 21 Re-30..1960.

ALSO IN THE money bill. Young said, is \$15,000—now less 212 per THE \$1,185,309,093 measure, a survey planned jointly by the corps and reclamation projects for of engineers and the Fish and every one of the 50 states.

Wildlife Service.

"It sometimes "states the doubt if the 2½ per cent cut Pork Barrel Bill", but many legations.

will adversely affect North Dakota islators angrily denounced this laprojects," he said. "Savings may bel. well make up for this lower amount."

on the Oahe project."

(Oahe's budget will be cut \$1,087,500 by the bill.)

The estimated total to be spent on Oahe was \$380,000,000. Of that, contracts have already been let for approximately \$129,000,000 with

(Continued from Page 1) years, eight; months in the White

Young, making the comment in IN THE SENATE the count was

YOUNG SAID the new bill passed Sens. Allott of Color Capehart of

How They Voted

WASHINGTON (F) - Here is how Dakota congressmen voted as the House! overrode the; President's public works bill; veto: North Dakota; Burdick for. Short against: South Dakota, McGovern and Berry for.

Idaho, Fong of Hawaii, Hicken-The Corps of Engineers had tes- looper of Iowa, Langer of N. D., tified, Young said, that the \$800,000 Martin of Iowa, Mundt of S. D.

ficient to complete the job by Nov. publicans and two Democrats-Sens. Byrd of Va., and Lausche of Ohio. u troisong obs.

cent-to undertake investigation of perennial "congressional favorite. the adequacy of Darling Dam on contains construction or planning the Souris River north of Minot, a funds for nood control, navigation

They say the projects are esamount."

In South Dakota, a Corps of Engineers spokesman said he had "no quick way of avaluating the effect on the Oahs model."

In South Dakota, a Corps of Engineers spokesman said he had "no quick way of avaluating the effect on the Oahs model."

In Say the projects are established to greater a south of the country's soil resources and to permit full use of the nation's harbors and waterways.

ling August a year ago. Total storage at month's end totaled 25.1 million acre feet.

The drawdown of Garrison res-

The drawdown of Garrison reservoir was the greatest, accounting for \$611,000 acre deet of the total. Figures for other reservoirs were Fort Peck flow 174,000 acre feet; Oahe, up 1997 Fort Randall, down 465,000, 300, 124,197 Point, down 35,000 03,12 at 11 Power generation at 11 Power generation at 11 Power records. An all three fill A 420 0 1100 kllowatt hours was generated during the month. The park hour generalion rate was generated during the month. The park hour generalion rate was generated during the month. The park hour generalion rate was generated during the month. The park hour generalion rate was generated during the month. The park hour generalion rate was generated during the month of the park hour generalion rate was generated during the month of the park hour generalion rates was generated during the month of the park hour generalion of the par

tion with a summercial tonnage for the 1950 season rising to 566,000. Fort Handall led in power out-put with 168, million kilowatts. Garrison was second with 146 million. At Fort Peck the output was second with 146 million. At Fort Peck the output was so million and at Gavins Point 61 million. Williston Fights
Closing Of GN Underpass

BISMARCK- (AP) - An underground crossing of the Great Northern railroad tracks at the southeast edge of Williston and resistance to its closurewill be the subject of a hearing before the Public Serv-ice Commission in the courthouse at Williston on Nov. 4 (10acs).

The Williston Livestock Commission Cote and others have started; action before the commission, re-porting the GN plans to close the underpass, it has maintained for many years and alleging its maintenance is required by public nev cessity.

THE SPOKESMAN said, "It's not difficult to understand why we cannot evaluate the impact of a one million dollar cut in a project totaling 380 million dollars.

"The cut could be significant. Then again we will probably be able to live with it."

Congress overrode the President's veto Thursday — the first time this has been done in his six (See WORKS BILL, Page 2)

At Ri/

Aandahl Expresses Cautious Optimism On State Diversion

lars, the Garrison Diversion proj-Ardent support, 'Aandahl said, But ect would be nearing completion, he added that the road ahead still said Assl. Interior Secretary Fredlig full of bumps and pitfalls. G Aandahl bere Monday.

In a talk prepared for delivery to the North Dakota Water Users and the rewards great for the fu-Assn. and the Rugby Chamber of ture of North Dakota," Aandalil Commerce, Aandahl had more dis-said. "I am sure of eventual succussion of the long-hoped-for water cess." project but little in the way of promises from the federal govern-ernor was to speak Monday night

on has given the diversion project dressed audiences at ceremonies

Corps Will Call For Bids On New

Another phase of work on the Buford-Trenton Irrigation District. river bank stabilization will open with an invitation to bid on the: work to be issued about Sept. 15 wheat production, and corn grown by the Corps of Engineers, Corps representatives said today: 3.

The work, comprising schedule B of Stage II in the project will consist of excavation of earth for duction," he said. toe trench revetment, placing of stone for toe trench, revetment construction, and reconstruction of

stone filled dikes and referements.
Plans and specifications are expected to be issued about Sept. 15. a spokesman said. Estimated quantities of materials to be fiscal or handled have been set at 210.-400 cubic yards of excavation, 61,-620 tons of place stone from the quarry, 15,749 tons of place stone from the stockpile and 10,700 tons of stone to be quarried and stock-

RUGBY in - If words were dol-lhis close personal attention and

"BUT THE STAKES are high

The former North Dakota govto a similiar meeting at James-Interior Secretary Fred A. Seat-lown. Over the weekend he admarking dedication of new construction in Theodore Roosevelt National Memorial Park.

To the Rugby group, Aandahl said the entire reclamation program stands as a memorial to Theodore Roosevelt and other leaders of the West.

Citing advantages to the state of irrigation from the Missouri River, Aandahl answered one criticism voiced by opponents of the project - the question of crop surpluses.

"With the development of irrigation, land will be diverted from on irrigated acreage will, for the most part, be a silage or grain crop to be fed on the farm for increased and better livestock pro-

MORE IMPORTANT than crops, he added, will be job opportunities for the young persons who now, leave North Dakota. He said irrigated areas öf western Nebraska typically support 27 times as many people and provide 40 times the personal income of adjacent drylland areas. '

"I frankly, feel," said Aandahl, "that here, as elsewhere, reclamalion's greatest accomplishments are measured, not through bushels and tons and dollars of agri-

shapped. President Eisenhower's home mortgage loans.

ities in control, the House and bonds, with the Senate overrode Eisenhower's veto works money bill-the first time they've been able to enact legis-

At the same time; the House completed congressional passage of a third-round housing bill shaped to meet most of the ob-The President is virtually certain wishes. to sign this third-round bill.

Adjournment Nears

These developments came as Congress moved ever closer to adjournment of a session that began eight months ago.

Congressional leaders aimed to wind up work next Monday if possible. But the threat of a possible all-out battle over civil rights hung over these plans.

of Ever. with Thursday's setback, Eisenhower had an impressive possibly longer. which has been dominated by the opposition Democratic party for all House.

public works bill by a 280-121 roll-beyond Nov. 9. call vote—12 votes more than the "If they do, congressional leaders" override.

The result was greeted in the civil rights measures. House by an exuberant burst of cheering from the Democrats; and silence from the Republican side.

Senate Is Quiet

Less than two hours later; the Senate completed the overriding action by a 72-23-30tes or eight more than two thirds.

Unlike the Housey there was no applause or other dethonstration

ment housing programs. A key section gives the Federal Housing Administration another eight bil-WASHINGTON (AP)- Congress lion dollars in authority to insure

unbeaten veto string Thursday to One important piece of business: give Democrats a resounding late- yet to be disposed of by Congress in hining victory: With heavy Democratic major-rate on series E and H savings

Senate House conferces met for. of 'a second pork' barrel public an hour Thursday in an effort to compromise differences, but afterward House Speaker Sam Raylation over a veto in the more burn (D.Tex) said it looks to him than 61/2 years of his presidency. like an impasse, at least at this point.

Would Lift Ceiling

The House passed a bill which jections that caused Eisenhower would allow the Trensury to lift to reject two earlier bills in this the current 314 per cent ceiling field. Both those vetoes stood up. on these bonds to whatever rate it

The Senate version of the bill would fix a feiling of 432 per cent, but would allow the Treasury to use a lower rate. The Eisenhower administration opposes the Schate: proposal.

Perhaps the biggest job ahead of Congress is the foreign aid money bill, due to come up in the Senate on Saturday.

This likely will carry Congress over at least through Monday, and

erners will stage an extended light? opposition Democratic party for all over a rider to that bill. That rider but two of his years in the White would extend the life of the Civil

The House acted first on the Rights Commission for two years

two-thirds majority required to fear opposition forces will come out 'fighting' for more extensive Diversion rear OK By January

JAMESTOWN (A) - Fred G Aandahl says he is confident the Bureau of Budget will send its approval to Congress by Jan. 1 on the Interior Department's report on the Garrison Diversion proj-

Aandahl, Assistant Interior secretary, spoke here (Monday night tatia meeting sponsored by the North Dakota Water Users Assn.

He said the latest exchanges of opinions among reclamation officials were that planning should be focused on an irrigation; project entailing 250,000 acres instead of the previously mentioned 470,-000 acres.

Ultimately, he said, life Garrison Diversion project envisages the irrigation of one million acres or more.

In commenting about the controversial water projects bill; which was twice veloed and overriden by Congress, Aandahl said he wanted it made clear there was no question on continuing water projects which were already being developed.

He said the whole point of difference was the appropriations for 67 new starts. Of the 67 new starts, he said, eight are under the supervision of the Bureau of Reclamation and two of the eight would just as well never be started. He said the other six should be started sometime.

Aandahl quoted Floyd Dominy. commissioner of the Bureau of Reclamation, when he said the Garrison Diversion unit plans are, "on schedule." He said tentatively construction funds are set for 1963 with the first delivery of water from the Missouri River in

Aandahl said it may seem to many, that the project report has been moving slowly.

Yet when we consider the size and cost of the project, and the importance of proper timing," he said, "I am inclined to say very good progress has been made."

struction deadline, March 1, 1960; many projects which show a close with the entire project to be completed not later than June 1, 1960. fits to costs and require the use Bids on another phase of Corps of indirect benefits in that ratio."

work, which middes reservoir access roads and decreation facilities in McKergie county, will be accepted until Scitt 22 at Riverdale where they will be opened at

2 p.m. that day spokesmen said. The work embraces two schedules which are actually separate contracts but may be let as one or two, the representatives said Site of the construction is the

Tobacco Gorden Creek Recreat tion area; about 20 miles north of Watford City, Schedule B includes 8,100 cubic yards of excavation. 1,800 cubic yards of gravel surfacing, 335 rods of fencing, one and a third acres of seeding, 41 guard ralls, posts, a latrine unit. and three pienic unit areas...

Completion deadline for this schedule is June 1, 1960. Schedule C of the work includes construction and placement of project signs for all the reservoir recreation areas. Completion deadline is June 15, 1960.

ratio of dollars and cents bene-

er's veto of an earlier public works bill carrying funds for hundreds of navigation, fllood control, reclamation and other projects all over the national continues The bill passed over Eisenhow-

er's veto totals \$1,185,309,093 about 30 million dollars less than the earlier version. But it retains 67 new projects Eisenhower opposed—the same 67 projects which moved him to reject the previous bill on grounds it wouldt open the way to massive spending in future years.
Housing Bill Passes

By contrast with the dramatic action on the public works bill, the billion-dollar compromise housing measure was passed by the House on a perfunctory voice vote. The: Senate had passed it 86-7 Wednesday, c The compromise, less expensive

than the two earlier measures El-senliowers rejected, furnishes authorsty for a variety of govern-(Continued on Page 6, Col. 7.)

ences at, ceremonies dedicating new construction in Theodore Roosevelt National Memorial Park : Park

II Milu Callison Reserven

Williston

Publication

it of the Great Northwest. nis subject is featured in the It was buried there in 1953.

tember issue of The Connect-

Rod, employe gublication of ly in the history of the country, some of the color of the past is simulated by Service, and a n, built by the U. S. Army ly in the history of the recently in the article.

Since me dam enduppeline are in a region that figured prominetly in the history of the country, some of the color of the past is included in the article.

J. Fellowski of Williston recently the built by the U. S. Army ly williston district. gram, are performing invalue the Tioga-Mandan line. eline benefits the region ough the operation of an effint and economical transportasystem. North Dakota beneby a payrolkof 25 million dols a year from the oil industry.

te's oil industry would develop a slover pace. project that will assure Dakois of flood control, irrigation. wer, water satitation and other

thout economical pipeline trans-

tation of millions of gallons of

to herefinery at Mandan, the

desits for many Pears.

The article goes on further to plain the relationship between dam and the pipeline. Miss-

Work To Start Williston Herald

Ground breaking ceremonies for Williston's new water plant in the Lewis and Clark bridge area will be held next Monday morning, it was announced today by W. Dale Frank of A. and A. Contractors.

arrison Dam Reservoir and a ouri River waters, held by the le oil preline are writing new dam, have backed over the flood ory in the industrial develop- plain, about 15 miles south of Tioga, where the pipeline crosses.

Since the dam and pateline are

ps of Engineers under the Mis- of Service's Williston district ri River Basin Development which includes the operation of

Or Water Group: Davis

surprise and regret Monday at a charge levelled by Democratic committeemen, Sundantagainst Dakota has displayed an all-time composition of a committee making low in common courtesy and good tion of leaders in the North Dates of the lower surprise to the 47 per cent of the 47 p arrangements for a United States manners to the 47 per cent of the kota water movement as a working senate poramittee per in Bis-state's voters that voted Demmarck next menth office

at Fargo Sunday addressed by U.S. the Bismarck hearing of a Senate He pointed out that he is a mem-

ocratic in the last election."

Gov. John E. Davis expressed|Sen. Hubert Humphrey (D-Minn.)|Committee on National Paragrees

The Daylor attack in the last election.

The Daylor said that the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of their party to the seven-man work with no thought of the seven-man work with the seven-ma

ber of the committee in his capacity as governor and chairman of the State Water Commission former Gov. Norman Brunsdale is a member because of his interest and experience in the water program as former chairman of the water commission; Roy Holand is chairman of the Garrison Conservancy District board of directors; L. C. Mueller is president of the state Water Users Association; Herb Lyons, Jamestown, and H.F.S. Davies, Minot, are long-time workers in the water development movement; and John O. Hjelle, Bismarck, is assisting in local arrangements for the hearings, which will be held in conjunction with the annual meeting of the North Da-kota Water Users Association.

A SUBCOMMITTEE working on mechanics of the hearings consists of Fred J. Fredrickson, Washington representative of the Greater North Dakota Association and the water commission; Oscar Berg, secretary of the Water Users Association; Milo W. Hoisveen, state engineer, and water commission secretary; and Vernon Cooper, Hoisveen's assistant and secretary

of the Conservancy district. "The water development program is non-political and the fact that not even a thought was given to the political proposition of the committee is proof of our intention to keep it out of politics," Said Davis a Members of the committee were chosen simply on the basis of the help they would give and al-though I afficine there are others who could have done just as much the committee is pretty representa-tive of the state's water interests."

He added that as long as the subject had been prought up, it is his, understanding that Berg happens to be a Democrat.

Biggest U.S. Water Birds Structure of the Structure of th

the road for a series of 20 hearings! in 17 states, beginning Oct. 7 at Bismarck, N.D.

Looking for ways to conserve and develop the nation's water resources for the use of millions of people still unborn, the committee will hear hundreds of witnesses across the country. There have been warnings that the counfry will be hard-pressed some day to provide food and water for a rapidly increasing population.

Mansheld (D-Mont), will be seek day, Oct. 6. half-céntury:

ment, including dams and other Assn., will be a one-day affair. projects, is needed?

2. When will it be needed?

3. When will it be needed?

development plan? 5. What levels of cost and ex-

penditures would be justified?

WASHINGTON (AP) - The na-|er Commission, predicted require-|vate power groups, fish and game tion's biggest water study gets ments of electricity; Interior De-officials, health officials, college rolling next week. The purpose: partment, water recreation and teachers and other interested to prevent water shortages in the fish and wildlife needs. groups and state officials.

Among witnesses at Bismarck The hearing schedule includes

The Senate select committee on and other hearing sites will be Oct. 17 at Huron, S.D., and Oct. national water resources takes to farm water users, public and pri-28 at Sioux Falls, S.D.

Panel Will Review N.D. Water Program

amount to a full-scale review of the State Water Conservation Com-The committee, created during ment program will open sessions grefe, Garrison district engineer, the past session of Congress under of the North Dakota Water Users Riverdale; Bruce Johnson, projects a bill introduced by Sen. Mike Assn. convention in Bismarck Tues-manager for the Bureau of Rec-

resource activities in the next this year in a consolidation of the ice, Bismarck. old North Dakota Reclamation

> with hearings here the following be the panel moderator. Resources.

quired for specific time periods Auditorium with a registration desk in which the Soil Conservation

A panel discussion that will[secretary and chief, engineer of lamation, Bismarck; and Lyness ing answers to at least six specific The first annual convention of G. Lloyd, state conservationist for questions in connection with water the association, formed earlier the U. S. Soil Conservation Serv-

1. How much water develop- Assn. and the Missouri Projects E. M. GREGORY, Fargo, agricultural development agent for the It is being held in conjunction Great Northern Railway Co., will

day of a select United States Sen- Panel members will discuss all 4. What should be the water ate Select Committee on Water phases of water control and use from flood protection and large dam impoundments to small, inenditures would be justified? | CONVENTION sessions will be dividual farm projects such as are 6. How much water will be re-held in the Bismarck Municipal being carried out under a program President, Aleg: Rawitscher, are expected for be present at the ev-

A. C. (Bud) Henne, president of A. and A., and Art Weisenberger, secretary-treasurer, also will be on hand

Details and definite time for the ceremonies are yet to be ironed out. Actual work on the plant will get under way Monday afternoon, according to Frank, who is a former Wêstern Union manager in Williston.

A. and A. has established an office for the local operation at 129 South Main Street in the old American State Bank building. from federal agencies and private consulting groups on such subjects as weather modification (cloud seeding), lake evaporation control, purification of salt and brackish water and seepage con-

These additional reports have been requested. Federaly Reclamation Bureau, expected needs in the irrigation field; Army Engineers, flood con-meeting of the Bismarck League members of the committee will attrol and analygation; Agriculture of Women Voters for 1959-801-will tend, is scheduled for 7 p.m. Tues-

committee will obtain reports from Dickinson: Milo W. Hoisveen

Women Voters To Hear Talks On Wismarck Trib. Sen. Robert S. Kerr (D-Okla.) The first general includership mittee, will speak and which other

son, representing the Bureau of Reclamation. The three will tell of their work and their own particular concerns about the use of water in North Dakota. This is part of a study by the league of the Missouri River basin.

All husbands of league members and those interested in joining the

league may attend. :-

Department, industrial water use; Bureau of Mines, water use by Engineers. Garrison, Milo Hols-mineral industrias Eddard Pow Yeen representing the Captage of the Army Corps of Engineers, Garrison, Milo Hols-mineral industrias Eddard Pow Yeen representing the Captage of the Army Corps of Engineers. mineral industries; Federal Pow veen; representing the State Water Commission, and Bruce John-

Congress. Translate

will preside at all sessions.

A dinner at the Bismarck Mu-

the Garrison Diversion. Project, construction of which is dependent upon legislation now, pending in State Rep. L. C. Mueller, Oakes,

All contracts have been signed for the construction of Williston's new water plant, it was announced today by Everett Palmer, city attorney.

Performance bonds for Peter Kewitt Sons, Kovast Construction Co., A. and A. Contractors Corp. and Main Electric Co. were approved by the city commission

street improvement, viewer; and water connections in District No. 1 was approved Thursday, 312

Cost of the work will be \$178. 000, with property owners to pay at the rate of \$15 annual installments at six per cent interest

Editorials

Water for a Growing America Bismarck Tribune 10-6-59

"It, is appropriate that a Senate taken for granted just like the air Select Committee studying the nation's present and future water needs hold its first hearings in Bismarck, the capital city of a Great Plains state in which water. or the productive use thereof, is of foremost concern.

The committee will travel to a great many other states in the cosise of its 19-hearing study, but in few places will it get a better demonstration of interest in water development.

No will it find many better demons ions of the problems that arise from an equitable development of the nation's water resources.

North Dakota, of course, is interested first and foremost in the irrigation aspect of the water program, of which the proposed Garrison Diversion project is an example of the grand scale.

But it offers examples of other water needs, such as those of industry and municipalities, based upon growing population, which are striking miniatures of the prob-Iems that face many metropolitan areas in other states.

GARRISON DAM IN North Dakota was the first major accomplishment of the huge Missouri River Basin program, the greatest regional attempt yet undertaken in this country to harness and put to work all the water resources of à large and integrated area.

In what has transpired here; another problem becomes immediately evident. Through Garrison we breathe. Actually, the experts say, water is getting to be one of America's most valuable resources, with the growth and security of the country hinging upon its wise conservation and use.

The Population Reference Bureau estimates that the United States will have added about 28 million people to its population during the decade 1950-1960 and projects a population of 260 million Americans by 1980 if present trends continue. By the year 2000 not 41 years hence—present growth rates would double our present population, bringing the total to 350 million.

There is no obvious reason to believe that these trends will change drastically. As a matter of fact, past forecasts of population growth have been on the conservative side. Projections prepared in 1955 proved to be 400,000 short of the actual estimated population by July 1, 1959.

TO PROVIDE FOOD for the millions of new mouths that will have to be fed, particularly in the face of dwindling acres of crop land, will take the kind of intensified production that comes with irrigation. To insure the millions dwelling in big cities of enough water to drink, and with which to flush toilets, will take conservation of water. To keep aluminum and plastics and other plants going will take still more conservation of water.

The committee's job, we under-

Birmarck Tribune N. D. Water Needs

For Future Years

Some North Dakota cities already face serious water shortages and others foresee the day when insufficient water may curtall their scrowth.

Water-ineeds of North Dakota for the senders is the water picture will be covered in testimony betor the senders is the countritie be preny well outlined at the verbally while others will be filed initial hearing of a Senate Select for the committee in National Water Resources next Wednesday. sources next Wednesday.

held in the House of Representa-tives chamber at the capitol, will be the first the committee will

go, is expected to go into the booming population growth of the nation with statistics showing vast- about 300 persons, and we want ly increased food requirements it to the filled with people who and half a generation hence. In the filled with people who and half a generation hence. In the filled with people who and half a generation hence. In the filled with people who and half a generation hence. In the filled with people who and half a generation hence.

are going to get a good deal of attention at the hearing seconding to Milo W. Hoisveen of the state water conservation commission, who is helping to arrange Club. details of the hearing presenta-

have at least one spokesman. In So should the ways of supplying addition others will file state-the water requirements of North ments, some of them in behalf Dakota irrigators and municipali-ties. The Bismarck hearing, to be sections of the economy, such as

cial invitations have been extended to the memberships of several hold during the next two months. North Dakota organizations to Most of the information the committee gets here will apply these are the North Dakota specifically, but these are the North Dakota Bankto North Dakota specifically, but these are the North Dakota Banksome will begin outlining the national picture, too.

FOR EXAMPLE, Dr. Fred S. of Municipalities; League of WomHultz, president of the North Dakota Agricultural College at Farservice (county) agents) and so

This will be translated into increased water requirements both in order to insure a stable and plentiful supply of food and for oklahoma stable chairman of the shundrighal purposes of the select committee, of which Sen, municipal water requirements Milton R. Young of North Dakota

is a member of the Kerr also will speak at the annual banquet of the North Dakota

Club.
The Water Users convention will The Water Users convention will start at 9 a.m., Tuesday, in the Municipal and interior with the public invited Bismarck individuals and business firms holding memberships in the association are particularly invited to par ticipate in the meetings.

State Is Heading For Real

been brought under control so that it can no longer be a great flood menace and so that water for municipalities, power production and navigation are insured. But so far, no start has been made on another phase of the total basin program which was as important in the original picture as any other phase of it: the beneficial use of water for food production through irrigation; such as would be accomplished by Garrison Diversion.

We are controlling the waters of the Missouri, but so far we are not using them except as they run down callicarrying barges, turnng thus the and diffusing sewage.

nation's water needs are apt to be 20 and 40 years hence, and then find out what and where its water resources are and how they can be saved and used.

This is a big task but it is of great importance to the future welfare of the nation, which, like any living thing, needs water to sur-

GRAND FORKS N.D. IP. lower states, he pointed out. This North Dakota is heading long a land was used for such projects real water light; a federal official as the Garrison Dam.
told delegates to the thirty light "Johnson said in the past few

are going back on the Pick-Sloan ment projects.

and flood control projects com- icipal water plants. pleted in North Dakota and are not interested in irrigation work needed by this state. North Dakota gave 500,000 ac-res to keep fised waters from the

annual convention of the North years, the lower states had de-Dakota water and sewage confer serted the Pick-Sloan plan. He er, Bureau of Reclamation, Bis- "mainly responsible for this" and marck, warned the 140 city and pointed out that Blair recently state officials gathered at the an- had written Sen. Stuart Symington nual banquet that the lower states urging economy in water develop-

reclamation plan of 1944. The act, The speaker claimed in pletion he said governs use of the Miss- of the tryigation plans under the ouri River Basin. ourl River Basin.

Johnson Said: states such as tional 950,000 people to the state.

Missourl Towa and Nebraska have 430 new farms: 145 million dollars in new business and the wife.

Cive dale May District Engineer

Propose

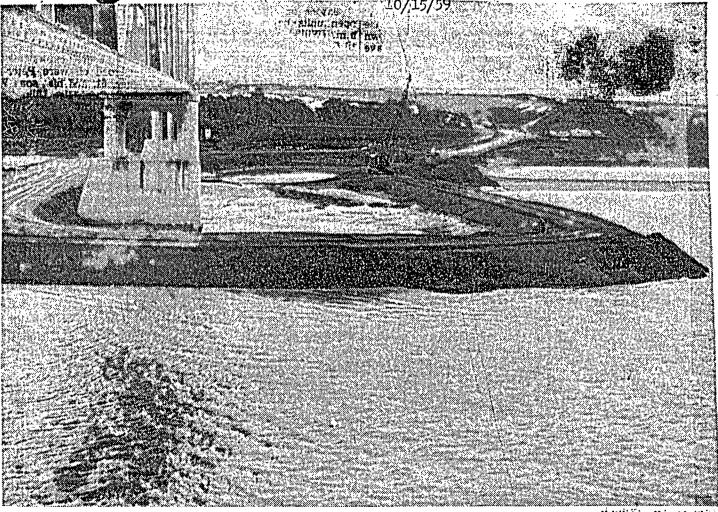
REVERIABLE Plans are well dvanted the consolidation of the Consolidation ith the Omaha district, a C of E pokesman has revealed.

The announcement confirmed, umors of the change that have een prevalent for some months. Inder the proposed plan, Riverale would become an area ofice for the Omaha district some ime before the end of the current iscal year which runs through une 30. Fort Peck currently is an rea office under the district ofice here and apparently would reain that status.

The corps spokesman pointed out hat Garrison district office, first t Fort Lincoln and then at River? lale, was set up in 1946 to superise building Garrison dam. Now hat Garrison project is virtually completed, he said, the stipulaed need for the district office has ceased to exist.

The extent of personnel reducions and transfers necessary to accomplish such a shift is not; known at this time, the spokesman said. If the change is made there would remain two districts in the Missouri river division of the Corps—those at Omaha and Kansas City. Until July 1, 1956, when it was consolidated with Garrison, there also was a district office at Fort Peck, Mont. of the Views

The announcement brought a, sense of urgency to an effort, by state officials and civic leaders to preserve the status of Riverdale as a North Dakota community. With help of federal agencles, avenues looking toward establishing an in- 🕳



-Williston Hernid Phote

NEW WATER PLANT ACTIVITY - Work at the site of Williston's new \$3 million water plant was advancing steadily this week in spite of the unseasonal weather. The Herald's photographer today, found a busy crew of men with heavy machinery engaged in preliminary work which already gives clear outline of the scope of activity.

Shown in the foreground of the picture is the coffer dam belie bonstfucted to provide a "dry-bottom" pit where the huge thitake pipes will, be laid to take the city's water supply from the river into the plant atop the hill. The large crane power shovel is removing the dirt from the basin to build up the coffer dam, while the power pump at lower right of dam structure pumps the water from the basin over into the river.

(No. 3) shown in foreground to the pump house to be located just south of the railroad track. From here it will be pumped under the track to the treatment plant on the hill also passing through a large sediment basin.

Much of the heavy machinery on the job is visible; along the road at right leading to the coffer dam site and in the distance atop the hill.

Work has also been started on the supply road to the new plant site, which will be hard-surfaced when completed, and takes off from Highway 85 beyond the curve approaching the

Peter Kiewit & Sons Co. of Omaha has the prime contract for the intake structure, while work started on the treatment North Dakota Nitrogen Co. last year announced plans to build a chemical plant to produce fertilizer there but the project has bogged down and recently the concern has been looking at other sites.

lant Apparently of the Making

Riverdale's proposed multimillion dollar fertilizer blant may

built in the Bismarck-Mandan 200. 1 defer

was to have been a work force

that the plant will apparently be built in the Bismarck-Mandan area with another branch at Wahpelon.

This comes close on the heels of the proposal to consolidate the Omaha and Garrison District offices of the Army Engineers.

This proposal has been in the intoneffect, may stake place between the organic plant will apparently be plant will apparently be the Bismarck-Mandan area with Bismarck-Mandan area with another branch at Wahpelon.

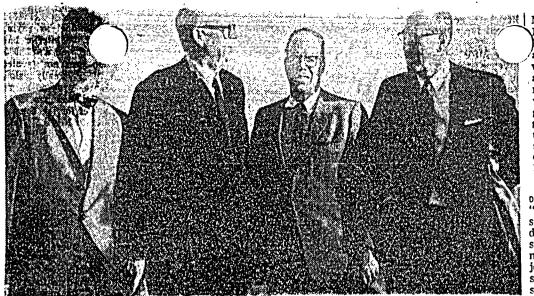
It had been estimated that the rison Dam. Now that the Garrison the Garrison the Consolidated with Garrison District office at Fort Peck Mont. Fort he said the stipulated need for the district office has ceased to over, making this an area office exist.

This proposal has been in the intoneffect, may stake place bettons and transfers necessary to when no longer needed for consolidate with limited purpose of building Garrison Dam. Now that the Garrist Garrison District office at Fort Peck Mont. Fort he said the stipulated need for over, making this an area office exist.

never materialize it was learned of about 700 on hand for two A Cores of Lagineers spokes Missouri River Division of the years during construction and the man found of the years during construction and the man found of the years during construction and the man found of the years during construction and the plant was bus have required a Garrison District office was set Kansassite Until July 1, 956, permanent operating force of up in 1946 for the expressional when it was consolidated with when it was consolidated with

rinking for some time.

The disposition of Riverdale when no longer needed for constructed at a site near Riverdale as soon as the frost was out of the ground. There would remain two districts in the three years.



Girison Diversion project are these four U.S. First to right, they are Gale W. McGee of Wyoming, many hearings.

Witnesses:

Headed Minot Daily News

day.

ments

reclamation field.

"While I do not want to

cite Russia as a criterion for

our own development," Davis said, "I was neverthe-

less somewhat impressed by

some of its accomplish-

Bymbavis

The governor's talk was anneu chiefly at drumming up support for is another factor in the growing the Garrison Diversion project, demand for water, Hultz noted. which calls for diverting water State engineer Milo W. Hoisveen

need to be for irrigation, Davis water. BISMARCK A parade of North Dakota witnesses. said. Use of damnied up Missouri river water for irrigation was envisaged when Congress set in moheaded by Gov. John E. tion the Pick-Sloan plan for Mis-Davis, unfolded the state's souri river development in 1944,

before a U.S. Senate Select North Dakota gave up more than committee hearing here to-The governor, calling upon his observations on his nor said. North Dakota leaders in trip with other governors to the diversion movement have ac-Russia last summer, told the cused downriver states of dragging pressed with the strides

"What we look forward to is

Holding a hearing in Bismarck today of the Robert S. Kerr of Oklahoma, chairman of the committee, Thomas H. Kuchel of California and Milsenators, members of the Senate Select committee. ton R. Young of North Dakota. It is the first of

case for Garrison Diversion he added.

half a million acres of bottomland for Missouri river reservoirs and considers Garrison Diversion a fair and honest return, the govercommittee that he was im-pressed with the strides obtained the flood control they being, made there in the

> a chance to put a small part of the water stored in the Garrison reservoir to work;" Davis said. "The Garrison Diversion unit represents North Dakola's primary interest in the Missouri river development.

"This unit is our only prospect

from Garrison reservoir on the said orderly development of the Missouri, river near Coleharbor for three main water resources would irrigation, to a 25-county area in provide for a 460,000 population central and eastern N.D. increase in North-Datota by 1980. With a statewide average rain-fall of only 17 inches and storage its primary water kota regards its primary water

Hoisveen said about 96,000 acres our river basins."

Minot - "Much of northwestern North Dakota has less than 16. inches of precipitation a year, and as a consequence little or no water is available in streams; after the snow melts. That area must look to the Garrison reservoir, the Xellowstone river and ground water sources for irrigation and other agricultural uses. The area's only other major stream is the Souris river, which eventually drains into Hudson bay."

Willis Van Heuvelen, executive officer, state health department -"In the field of municipal water supply, there is an ever-increasing demand for more adequate and satisfactory water supplies for municipalities in the state. A majority of the 150 municipal water systems, rely on wells for their supplies. . . The development and diversion of surface waters in North Dakota will make available an adequate water supply to at least 40 municipalities which are now restricted because of inadeDischarge Rafe Will Decline

Garrison Dar and Reservois it Midnight Tuesday went on a winter operation schedule with water discharges reduced from 20,500 cubic second feet to an average of 13,000 cfs, according to Ralph Ochler of the district hydrology section.

The reduction will cause a drop in the river level at Bismarck from one and one-half to two feet. Ochler estimated. However, he pointed out, there will be fluctuations because of low flows at night and higher ones in the daytime. The reduction was put in force be, cause of the imminent closing of the navigation season and heavy rains in the basin downriver which reduced demands on resérvoir storage.

The discharge rate will be main tained at 15,000 cfs until about Oct. 16, when it is scheduled to go to 12,500 cfs, according to Oehler. Garrison Reservoir water elevation Wednesday was in the neighborhood of 1,800 misla

Valley Authority Program Opposed By Water Users:

BISMARCK - The North Dakota! Water Users Assn., at its first con-Hoisveen said if only 30 per cent vention in Bismarck, put itself Urged continued investigation of the current runoff which flows on record as unequivocally op- and study of the proposed Bow-out of the state could be stored, posed to creation of a federal man-Haley dam on the Grand it would provide for 170,000 pco- walley authority" for governing river's north fork in preparation walley authority for governing livers in the profiinterest appears to be an actual favor of early enactment of legisnational campaign attempting to lation giving yindividual states convince the public that water broader control over waters with used for irrigation is wasteful in their own boundaries.

Requested investigation and review of the possibility of a flood used for irrigation is wasteful in their own boundaries.

porary agricultural surpluses, "it governing river basins, the group proposed works at the earliest positive we will find there is no substitute for water when our needs for food and other hard and other in the hard surplused in the hard and other in the hard and other in the hard and other in the development.

Dakota, much of it on a necessarily intermittent basis because Users urged "early enactment of Applauded the interest shown by of the uncertainty of stream flow legislation declaring all waters in state and federal wildlife agencies.

Mrs. Daphna Nygaard, James the state enumerated in Section 1 in development for recreational town, said an example of the need of the Reclamation Act of 1902 free and wildlife facilities in the chain

used for irrigation is wasteful and an extravagant use of this natural resource," Hoisveen said. He added:

"Regardless of our present tem. "Regardless of our present tem." Regardless of our present tem. "Regardless of our present tem. "Regardless of our present tem." Regardless of our present tem. "Regardless our pr

for food and fiber become acute." ticipating in the development of juse dams on the Sweetbriar creek tributary of the Heart river to denow are being irrigated in North Seeking a speedy decision on the termine the types of structures

and benefits of recreation areas for appropriations under the juris; of lakes from Turtle Lake to near is the Jamestown reservoir which, diction of the state; and thereafter Mercer and urged continued in-although not full of water, resulted subject to the Jaws of the state; vestigation of plans.

ments to the Senate committee in the state capitol states.

the last session of Congress, seeks answers to these questions:

How much water development. including dams and other projects, is needed?

When and where will it be needed?

What should be the water development plan? What levels of cost and expen-

ditures would be justified? How much water will be required for specific time periods and geographic areas? 10

Davis said Russia appears to have made great strides in the use of water for hydroelectric and agricultural projects. 3

The Select committee, created at |on 58,000 farms.

"The development of our water resources is the key to the growth "Numerous studies have been Urged all federal agencies conand prosperity of North Dakota,"

the governor said.

answer to criticism that irriga-tion will add crop stiffuses.

"The practice of irrigation, and the feeding of livestock to hand in hand," Hultz this THE said the United States will have a population of around 220 Million by 1975. whereour same and and ged in farm--ink to seven

ing gear in the last three years, waters for an bun Irrigation will mean a turn to It has been estimated that by 1980 In other resolutions, the Water fered its support to the Cannonmore livestock production, Davis it will require spending 21/2 mil- Users Assn.: needs of people.

made in southwestern North Dako-cerned with water development in ta by various federal agencies and the western states to continue and Dr. Fred S. Hultz, president of the North Dakota state water commens of climinating or reducing lege at Fargo, also presented an for the future. Several reservoirs and diversion projects have been water. proposed. These projects must be

Otto: C.V. Maerckleih Jr., Mott, vice president of the North Dakota Wildlife, Referation — "In the development, and revision of water rights legislation, the federation er western and Jakota and other wild in the state of the western and water development, and revision of water er western and Jakota and other wild in the state of the western and any other water water water water will insist upon recognition of recreation including fish and wildlife tion service notes work in assistmanagement, as a beneficial use ing North Dakotta farmers in deof water."

there. The committee will told the committee, and will mean lion dollars for recreational facili- Pledged continued support and study of the practicality and feasihold 19 more hearings in 16 other the 208,000 persons on 52,000 farms ties in connection with North Da- cooperation of all its members in bility of impounding waters of the today will be increased to 244,000 kota water projects to meet the the plans, programs and hopes of river by a series of small dams the Garrison Diversion Conservan-

Opposed legislation similar fo tinue, to grow, and if we are to benefit from the water resources of this semi-arid country."

Otto Oliver and in the water resources of the semi-arid country."

velopment of their land for irrigation and tirged that the SCS make plans to expand its services to meet the demand of farmers who will be irrigating as the rate of

ball, river, group in requesting a

Senate Group I old Winnicipy! Water Problem 'Most Urgent'

While a strong case for additional water supplies on many North Dakota fronts was presented "As a result of oil development to the U. S. Senate Select committin that area the community of, 800 haps the label "most urgent" was able growth. Greater demands nicipalities.

Secondoni; a series.

jection of a curre into some future date when the griply and demand lines cross and on

Right up against the blade, the testimony showed? are Minot, Dev-Dickinson and Grand Forks are by that agency, ing. So is Tioga. "The Fish and

shape. The major cities and all ment to make this crossing. Westen as typical.

told of the critical water needs of without the consent of the Fish that city both in quality and quan- and Wildlife Service," Saugstad tity and saw the Garrison Diver- disclosed. son project as the only answer to He noted that the action. was water security in the future.

nd who pointed out that the city to obtain ground water supplies.

million outlay to bring water from pipeline to Garrison reservoir to employed with singular success.

Baldhill reservoir and who remind obtain future supplies. "The growing complexity of our ed the committee that there were: periods-ranging up to 90 days in

go water, was completely dry.

tee in Bismarck this week, per people has experienced a consider. Ad attached to the plight of its mu-were placed on the water supply. Although Westhope had obtained a The testimony on that point water right for Kopris river water, clearly established the fact that from the Water Commission (N.D.) the state's cities are "in trouble" in 1955, it had not received approved. There was no need for proposal from the International Joint Commission. Hecent action, how ever, by the Joint Commission relriver, the city had to construct a testimony showed? Are Minot, Dev-ils Lake, Fargo and the smaller reservoir on the Souris river which communities of Westhope and Max. | would cross refuge land controlled

"The Fish and Wildlife Service Many others are in similar refused to give the city an easefew of the smaller ones were chos- hope took the attitude that their water requirements were of utwater requirements were of the most importance to the general witnesses for the major cities health and welfare of the commade these appeals:

Arthur J. Lanz, president of the pipeline to the reservoir on the Devils-Lake City Contribution who right-of-way of a county highway

taken only after \$54,000 had been Mayor Maurice Harrington of Mi-spent for surveys in a vain effort.

frees two alternatives to obtaining | Saugstad also related that Tioga, assolution must be found imme- since the discovery of oil, current- purpose," he said. ly is mining close to the maxi-

Red river, a prime source of Far- lion answer or the \$12 million an-Mayor Ocar Llunseth of Grand Forks who for that city's water supply lacked that city's water supply lacked that city's water supply lacked that city's water through wells in the underground the major lacked that by so doing the major lacked that lack and southern and the supply and lacked and southern and lacked and lacked and southern and lacked and southern and lacked and southern and lacked and southern and lacked and Robert Strank, president of 47-mile pipeline to Garrison reser- vantageously.

alive to the Souris river makes sistant secretary of interior, Fred to memet the demands of the such approval unnecessary. In or- Aandahl today strong furged in load on the system. der to obtain water from the Souris' tegration and pooling of power output in this area.

trend to big hydro and big steam service because of lighthing, sleet generating plants, required by the wind or some other cause he has power production, such integra- through which he can supply elecnecessity.

Aandahl was the principal speak- Frank M. Clinton, region 6 dier for the dedication of the Bu-rector of the Bureau of Reclamareau of Reclamation's recently tion, described the mechanism completed system dispatching center near Watertown. The Installation is the nerve center for control of the huge power output by Missouri Basin Dams.

He said heavy transmission lines and centralized dispatching is indispensable to a pooling op-

"The facilities that we are dedicating today, in addition to their strictly federal power marketing ern States Fower Co. he new water supply and added that has grown from 500 to 3,000 function, will be helpful in that

"Throughout the nation, power Herschel Lashkowitz, president mum of ground water supplies 10- positive among visibles, greaters of the Fargo City Commission, cated in surveys, and faces an out-practice among utility systems, who said that city faces a \$31/2 lay of \$4 million to run a 20-mile and in many instances has been

"The growing complexity of our interrelated powers systems here Mayor Harrington of Minot told in the Missouri Basin warrants a length during the 1930's—that the of the city's choice of the \$6 mil. gradual movement in that direction. Some pooling has already swer to a critical water supply been accomplished. Step by step,

governed the flow of its river the Souris and Des Lacs rivers ly used and scattered components and the higher figure covering a of power can be put together ad-

Pooling already has helped to

In order to accomplish that purpose we have built a long electronic handle from the dispatcher's desk at this center to the water gates which control the flow to the turbines in the power-plants," he said.

"Through these controls the dispatcher on duty is in control of the power generation of the sys-WATERIAWN, S.D/LP -As- tem and he varies that production

"His job is to place the generafors on the river at area disposal. He said that with the modern If one of the lines is taken out of demands for low cost efficient alternate lines at his disposal tion and pooling is an economic trical needs in correct amounts and at the right time :: ` .

and purpose of the dispatching center.

Also one the program were representatives of the major consumers of Missouri River power. They include Walter Harrison, president of the National Rural Electric Cooperative Assn. David A. Hamil REA admissirator, and Allan S. King, predices of North-tern States Power Co.

The ceremony preceded the 108th meeting of the Missouri Basin inter-agency committee which convenes Thursday in the Plateau center in Watertown. Most of the MBIAC agenda will be devoted to

MBIAC Hears Criticism Of biterior Department

WATERTOWN, S.D. (AP)

South Davota today criticized to citical because of the lack of unicral agencies in general and the interior department in particular nemagement of the basin of being unresponsive to the management of the basin for the basin at talk here.

in a talk here. Aberdeen, told it a wided and minimized areas of Missouri Basin Inter-Agency company while your baye.

tions for another 900 acre feet an lion gallons of water per day, de- cent power systems. nually from the Dickinson rearrowing much faster than anticipated. The city, now 7,500 population, will outgrow the capacity of the reservoir when it reaches 9,000. When the reservoir was planned it wasn't anticipated that population figure would be reached until 1990. Now it's evident the day will be reached much sooner.

Rep. Stanley Saugstad of Ward county, chairman of the state House of Representatives Committee on Natural Resources in County of the state and saw ings to the citizens of Minot as the consumers served in the state and saw ings to the citizens of Minot as the consumers served in the consumers served in the city of the citizens of Minot as the consumers served in the consumers served in the city to entarticipate and many in the months and returned during the more committeed and specific distance is constituted.

"In June of this year the City of Westhope found itself with less than a foot of water in the ground water aquifer from which the mu-nicipal water supple was ob-tained," Saugstad testified.

nually from the Dickinson reser-pendent upon normal rainfall and imported during the winter

looked into municipal supplies in this section of the state and saw the "situation regarding the cities of Minot.—Max and Westhope as most critical."

Water rationing was, forced in considerable in such a solution is three during the summer, he possible," the mayor concluded.

canal became and the same veryout the same veryout

plants on the mainstem of the 'Missouri River. It will help provide energy in dependable, usable supply for the farms; the homes and the industry in! the Missouri Basin, he said.

Holum is executive director of the gation season was planned to start closed doors." March 25 at Omaha and end between Nov. 8 and 11. However, the navigation season will end Sept. 22 in event of adverse water supply conditions which have prevailed in recent years.

Without saying so. Holum advocafed a central control of Missouri water managinent. He noted the present divided authority has, in general; given the Army responsibility for flood control and navigation, and the inferior department irrigation and power management,

only if and bwhen" both parties plan is in response toca request prosecute their responsibility with certain species of fish and both parties to enhance spawning conditions for certain species of fish and the certain species of the certain speci equal vigor," Holum said.

"We do not criticize the Corps Experimentary Grand of Engineers for representing their Garrison reservoir interests diligently so long as Conof effects of Towns higher than agement. We do criticize the De-conditions may be made, if con-partment of Interior for failing to ditions permit. That will be some be as vigorous."

"In the meantime, areas of dis-Mid-West Electric Consumer Assn. agreement have been ignored or Another speaker sald the navi-settlements reached behind

> He sald, "you not be willing to face controvers from bublic; hear the warfour pents of view and arrive at decisions with the public and press in attenuance."

Holum asked that the MBIAC policy forming group of Missouri development, at a future meeting publicly, debate the priority use for water.

An Army Engineers' report said the Gavins Point pool will be lowered to the flood season levels by mid-March in 1960, about three "Divided authority can succeed weeks earlier than in 1959 at The

gress permits this type of man- 15,000 cubic teef per second on ice time in January or February,



BISMARCK-It appeared The areas that will grow, he today that four senators said, will be those with abundant listening to North Dakota's supplies Tol water and low cost bushels. case for its Garrison Diver- energy stell With Garrison reserbe sold on its merits.

man of the Senate Select tial.

end of the nation to the Mississippi Valley Assn., in which This transition, in keeping with the other—Florida to Oregon—that group pledged its support to nation's appetite could be speed-the senator said there is no North Dakota in realizing the Garded with irrigation coming from the question at all about the rison Diversion project and other diversion project, he said. need for further reclamation phases of its water program.

The nation's growing population development in the nation. with the accompanying growing The question is one of prior-appelite was stressed again and ities or rather of greatest again by speakers at Tuesday urgencies, he indicated.

who are members of the Congressman Quentin Burdick Gee of Wyoming and Milton
R. Young of North Dakota—
Kerr brought down the gavel this morning that areas and other factors would soon priority list.

Sen, Kerr in appraising the tre- Yet, he added, in the states west mendous job ahead for the com- of the Mississippi only one-third mittee in weighing the demands for of the water in the river basins water practically everywhere in is utilized in water development the nation, pointed out that today's projects. The other two-thirds still demands are only a minor fore is flowing to the sea without any runner of what is to come. He use being made of it. In the East predicted that in 40 years the na-the record is even worse, sevention's demands for water will be eighths of the water in rivers not four times as great as they are being utilized a today.

He brought out that point as prin- He said he envisioned the day ipal speaker at the first annual not too far hence when "continubanquet meeting of the North Da, ous cities" would exist on both kota Water Users Assn. Tuesday the east and west coasts, requiring

mediate future. The senator caned that the project ultimately will be the North Dakota program "one of the greatest bargains in the history of the nation? saying that it calls for the type of imagination used in the acquisition of Alaska and Edilsiana, Purchase.

fre predicted the nation's populla on would double in the next 40 years and that the per capita need for water also would double , in that same period.

sion project didn't have to voir and the vast supplies of lig. long look" at pegged farm prices, be sold on its merits should be in an enviable position not come abruptly because of the

committee, made that clear. Addressing the dinner meeting

afternoon's session of the North With three other senators in the city auditorium here.

committee-Thomas Kuchel brought it out in his address when of California, Gale W. Mc- he said the nation is adding people started a parade of North make it necessary for the nation Dakota witnesses hoping to get to utilizé to its fullest every acre the Diversion project high on that of available tillable land. To use much of the land properly; he said,

requires water.

vast water and food supplies.

Sen Kuchel, also addressing the Congressman Burdick said he dinner meeting, told the group unibelieves the House would pass au-

realized.

"It'is 'just'a ma' provided we keep

enough. There is no down that it, is a good project the added.
Shoft, who discussed he fation's agricultural problem, so the complicating fathers in fighting the wheat surplus was the fact that the average per bushel yield in the nation in 1938 was 121/2 bushels to the acre while last year it was 271/2

He said it was time "to take a Sen. Robert S. Kerr, chair- to capitalize on its growth poten- hardships it would bring in countless cases.

He saw a great potential in North In advance of the first of briefly, Gov. John E. Davis told
a series of hearings planned by the committee from one

He also read a telegram from the bring greater returns, per acre.

N.D. Bids For \$902,392,000

Water Project Outlay By 1980

By JACK BONE

plus exhibits, tables, maps, and ap- 850,000; U.S. Wikkin Service, \$10,pendixes-North Dakota has 250,000; and state and local contridumped in the lap of a U.S. Senate butions, \$114,050,000. Select committee its case for a The total does hot include an \$902,392,000 program for water development between now and the

and secretary of the North Dakota lion to fill recreational needs which covers all projects, big and small cies. for irrigation, municipal and indus- While North Dakota laid its entrial water power, flood control tire case on the line for projects and pollution control that are need both large and small, its major ed to bring supply, and demand into pitch to the committee was for the

water needs.

When the hearing was adjourned after four hours of testimony was

In 10,000 well chosen words 000; Soil Conservation, Service, \$39;

estimated \$17.3 million required for year 1980.

The estimated figure, arrived at timated retiring outlay of \$2.5 milby Milo Hoisveen, state engineer Water Conservation committee by the various construction agen-

The figure failed to shock the dence was brought in to show how days in The News. four combers of the Senate combined water problems for the state—in in Bismarck' Wednesday, the first providing badly needed municipal in Bismarck' Wednesday, the first providing badly needed municipal in Bismarck' wednesday, the first providing badly needed municipal in Bismarck' wednesday, the first providing badly needed municipal in Bismarck' wednesday, the first providing badly needed municipal in Bismarck' wednesday, the first providing badly needed municipal in Bismarck' wednesday, the first providing badly needed municipal in Bismarck' wednesday, the first providing badly needed municipal in the badd in 17 states and industrial water supplies, in re-Garrison Diversion project. Eviof a series to be held in 17 states and industrial water supplies, in reseeking to get a national picture of storing Devils Lake, in providing seeking to get a national picture of needed recreational facilities, in overcoming pollution problems.

> But, most of all, it was brought out to provide irridation that

Gov. John E3 Davis pushed the case for an early start on the Diversion-projectintelling committee members: ¿Aersyeu are aware, once a river development is started, everyone profits from rapid completion. Delays, and postponements cost money and defer benefits. Our potential irrigators have long anticipated that the start of construction on the Garrison Diversion unit would be in-fiscal year 1963. We are hopeful this target date will be met.".

In all 28 witnesses appeared, unfolding a story of water needs from one end of the state to the other. Some of the data flappresented; will be covered in a series of articles to appear on subsequent

He said he favored a good sound able report on it water program that would "bring Burcau of the Budget. There was a opportunities, to, Bur, grandchil, tood chance of passage, he said, dren," and that the Garrison di- to said, even if the report were version project would do a great ion-committal, but if an unfavorjob for the nation,

san support of water development. longress for the Diversion project pointed but that if any issue aside nvolved making friends will repfrom defense of the country should resentatives in other states also inbe emphasized, it should be devel terested in similar projects. opment of water resources.

severe drouth since 1936.

Sen. Kerr told the audience, "

Water conservation is further vi-tal because the United States. entering an industrial development

ter resources and an additional the Flood Control Act of 1944. 5

ble report were forthcoming, "I oubt if it would pass the House."

Sen. Kerr, calling for a biparti. Burdick said getting support in

In defending his vote to over-He said he had flown over areas ride the President's veto on the on his warito North Dakota where water projects' appropriations-the there were loodwaters six inches President objecting because of the to many feet deep in a year when "new starts" the bill provided for, North Dakota had suffered its most Congressman Burdick quoted Rep. Wayne N. Aspinall, chairman of "It fust doesn't make sense," the House Insular and Interior Affairs committee as saying:

"There is no point in authorizing

Congressman Don L. Short said, program "beyond the imagination he had "thed as hard as I know of anyone in this room," Kerr said, fow" to convince his colleagues of He said \$308 million already had the vital importance of the diverbeen spent by the federal govern ision project and of the fact that ment developing North Dakota was the was "part of the package" of

homa, chairman of the committee. said: ita-skhinghel iv c

"It was " as most him wessive demonstration of the Wareness and interest in al problem of greafest significance. We hope that the evidence accumulated in other hearings to follow will-be of the same kind and quality we received here. Your problem is typical of the growing pains be-

felt North Dakota had "ably pre that it requires 65,000 gallons of sented an excellent case," and Sen. water to process a ton of steel. Thomas II. Kuchel of California One steel manufacturer who has said the hearing had made him been confronted with a water short-acutely aware of the fact that tree has reduced his requirements 'North Dakota's water problems for processing to 1,600 pallons per

Bureau of Reclamation, \$637,242, 000; Corps of Engineers, \$101,000, acute."

In that regard, Hoisveen's statement attacked what "appears to be an actual national campaign attempting to convince the public that water used for irrigation is wasteful and an extravagant use of this natural resource."

He went on: "In this period of some temporary agricultural surpluses, such philosophy gains many ing felt everywhere in the coun- supporters and it behoves irritry and the testimony was of great benefit to us."

gators, industry and all of us to exercise the best water conservation practices possible For Sen. Gale W. McGee of Wyoming ample, we often hear statements North Dakota's water problems are "like ours in California," adding: Sorey, can be solved by peoling: Sorey, can be solved by peoling: Sorey, can be solved by peoling: Sorey, can be solved by peoling water as much as 40 times. Regardless of our present temporary agricultural surpluses, it is very possible that in the near future we will find that there is no substitute for water when our needs for food and fiber become

1,59,000 Acres By Year 2,025

Editor's Note: A valuable compilation of data on North annual precipitation of 17.11 inches Dakota's needs for water in the present and future, as well as steps that have been taken to meet those needs, was presented in papers filed with the U.S. Sendte Select committee in Bismarck this week. Some of the material offered is being presented in coming days in a series of articles in The News.

A timetable for North Dakota formulated by the North Dakota Water Conservation commission and presented to the U.S. Senate Select committee calls for 1,659,-1000 acres to be under irrigation by the year 2,025,

The key to that figure, of course, involves a steady, uninterrupted development of the Garrison Diversion project.

But even without that project, some 652,000 acres; will be in irri-gation acres; will be in irri-gation acres; will be figures compiled by Mile W. In secon, sec-retary of the Water, commission.

In the table submitted to the Senate committee, Hoisveen estimates that the first 6,000 acres will be under irrigation as part of the Garrison Diversion project in the year 1970. By /1980, the total will have grown to 211,000

acres; by the year 2,000 to 615,000 acres; and by 2,025 to 1,007,000 acres.

The table also looks backward to the year, 1950, ... When - 72,000 acres was under irrigation in the state, 35,000 of that total represented by project on individual farms and the diffice in small group project.

By this year difficult had climbed to grow as a great of which so,000 was an and the balance of the bala

and the balance in group projects.

Those projects are expected to climb, until by 2,025, 302,000 acres will be served by individual projects and 350,000 by group projects.

In his testimony before the committee Hoisveen pointed out that a considerable portion of current irrigation is being conducted on a

escapes in the form of runoff and leaves the state. This averages 21/2 billion gallons; of runoff per day. Such runoff and the intermittent nature of our streams make necessary the impounding of precipita-tion for regulated use.

"If only 10 mer cent of the water were impounded it would provide us with storage capabililities which could be made available for public consumption at the rate "of 2509 million gallons per day. Such stored water would be sufficient for 170,000 people based on the national water use average."

Gound water also will be called upon to make a further contribution to the state's supply, Hoisveen said.

The commission has estimated that throughout North Dakota these million gallons of water daily.

"This would support an additional 166,000 people based on our national average per capita consumption of 1,500 gallons per day," he said. (The per capità figure includes the combined use of water completion is Nov. 1, 1960. in homes and high water consuming industry.)

To find this supply of underground water, the last session of the legislature voted \$50,000 a year which will be matched with federal funds.

"This will provide us an oppor tunity to catalog approximately 50 per cent of the ground water in the state by 1980," Hoisveen said., 1960.

RIVERDALLE (AP)—Fargo and Kansas City contracting concerns submitted the lowest of 11 bids for two schedules involved in the Lower Heart river flood protection. project south of Mandan, the Corps of Army Engineers announced.

\$252,267.40 on the unit below Man. er. the Sunny unit of the project.

unit below 'Mandan was \$274,- Wyo. 932.16 and for the Sunny schedule; supplies may provide another 250 upstream from Mandan was \$23,-

The project consists of building dikes and other works for protection of the Mandan vicinity from flood waters of the Heart, a Missouri tributary. Deadline for work held in Bismarck Wednesday, About

gineers at Garrison district headquarters hére:

building Garrison reservoir access night. However, the said he was records compiled through the coroads in the Tobacco Garden creek advised that flying weather west area south of Williston to Frank of Bismarck probably would be Branch of the U.S. Geological E. Olson of Williston. Work com- worse by Thursday morning. pletion is specified for June 15, The committee had planned to River was North Dakota's only re-

1960.

Issued bid invitations for Lewis Wednesday to make Laramie by and Clark roads and Buford-Trenton irrigation project bank stabilizing irrigation project bank stabilizin

Brown-Beveri Corp., New York, for others. switchyard steel and equipment for second power plant at Fort Peck ONE OF THE witnesses, Milo W. dam, Mont.4.

Awarded a \$32,364.72 onniract for keta.

· Will adequately safeguard all water 'rights established wunder state laws against the federal By BILL TILLOTTSON

Tribune Staff Writer

The Senate select committee on natural resources which collected data on North Dakota water uses and needs Wednesday cut short its stay here because

Mo., entered a bid of \$22,922 on his colleagues left Bismarck by omission might conceivably result military aircrast at 1:30 p.m. in a major catastrophe." The government estimate on the Wednesday bound for Laramie,

> With Kerr for a series of 19 hearings around the nation on water problems were Sens. Thomas H. Kuchel (R-Calif), Gale W. McGee of the U.S. Fish and Wildlife Serv-(D-Wyo) and Milton R. Young ice.

THE FIRST of the hearings were 200 witnesses and spectators were on hand in the House Chambers in

Other recent action of Army enthe State Capitol for the hearing, the state Capitol for the hearing.

Kerr said the committee would have liked to ride but the bad weather and stay in Bigmarck over-

ation work, in the Williston vicini- 21 witnesses during the Wednesday flow," he said. Awarded an \$17,350 contract to for the record from a number of Dakota water problems including

Hoisveen, state engineer and sec-lareas served by rivers other than Awarded an \$18,025 contract for retary of the State Water Conser- the Missouri. Yellowstone river bank protection vation Commission, suggested an work at Billings, Mont., to F. L. improvement in cooperation be-Flynn Co., Billings. Completion deadline is November, 1959. In water development in North Da-

lagencies and their licensees. "Some projects have been promoted at a local level by representatives of a federal agency with

out contacting the appropriate state agency," Hoisveen said "In at least one instance aistudy

report was not submitted for pube lic inspection when a review by Schultz & Lindsay, Fargo, bid of threatening flying weath- the sponsoring citizens was much desired," the state engineer told dan. The William A. Smith Conselect scommittee chairman, and the committee. "The flood conditracting Co., Inc., Kansas City, select scommittee chairman, and tions that may occur from this

Hoisveen later told a reporter he was referring to a dam on the Souris River north of Minot constructed several years ago by the U.S. Biological Survey, now a part

HE SAID THAT the dam was constructed without sufficient capacity to hold back possible peak water amounts in the area.

The Corps of Engineers should reconstruct the dam to proper specifications, Hoisveen suggested.

Hoisveen told the committee that Survey showed that the Missouri liable source of surface water.

"They show that all other streams in the state, at one time. or another, have practically no

not only Garrison Diversion, but also problems involving municipal water supplies; and individual

spread to all regions.

Korn sold the first h

are intermittent in flow, Supplemental water in the amount of 45,000 acre feet is needed for this acreage, he said.

He added, however: "Even with

a limited water supply these areas are aided materially by the partial irrigation possible because it tial irrigation possible because it provides ranchers an opportunity to produce some feed to hold over foundation stock during drouth periods. Most of these projects have been illegated with private capital and represent a considerable investment on the part of the individual." To provide the water for the projects; independent, if Warrison Diversion, as well as to meet other

needs, Holsveen, sees the need of further impoundments.

On that point he testified:

"Three fourths of an inch of our

Co., Bismarck. Delivery deadline provement, word fuollar cante is May 1, 1960.

"One such improvement concerns preliminately liaming." Hoisveen said. "Sold water development information is available within the state but that on occasions federal

state but that on occasions federal agencies make investigations without an effort to obtain data at the state level; a train of the cost of the myestigations. Hoisveen said. He said immediate federal legislation is feeded that:

Will read state that the federal water head of the property of the cost of the myestigation. Hoisveen said.

Will read state that the federal government shall, not, be deemed to have or acquired any water rights as a result of the lesservation of withdrawal of public land.

Will require compliance in the state water laws by all federal agendies, licensees or project beneficiaries; and a second market

North Dakota but in the entire nation.

The first witness called Wednesday was Gov. John E. Davis, who day was Gov. John E. Davis, who told the committee, "Studies made by, the North Dakota Agricultural College shifts that North Dakota's greatest benefit from the proposed Garrison Diversion Unit will come from the expanded livestock enterprise that will develop."

Davis said that with irrigation stable feed supplies will be available.

able to sustain beef, dairy cattle hogs and sheep;

"NORTH DAROTA'S stockment will become the spirce of feeder cattle and feeder lambs for farmiers in the integral project." Davis said.

Davis page, angle North, Dakota
the Misson is diver had been
tamed and controlled by the Garrison Beset pile and that part of
the pictures with look forward to
is a charted to put, a small part of
the water stored in the Garfison
Reservals of work. Davis said. Reservoir to work Davis said

The Williston Sales Ring's bid to save its most convenient access road failed in federal court at Minot Wednesday when Judge George Register. Bismarck, ruled the organization had no case.

An agreement between the Corps of Engineers and the Great Northern Railroad calls for closing of the old underpass leading to the Sales Ring to make way for approtective dike for the railtroad in keeping with the Garrison project.

Construction of a new overpass bridge and road to the north of the old underpass has been completed. Use of this road will make the distance to the Sales Ring one and a half miles further than the old road.

Ring officials object to the additional mileage as a deterrent to business, and the fact of traffic by-passing the ring:

Delmar Scott, Trenton, a director of the Sales Ring Board, said the board feels that use of the new road would be detrimental to business because the Ring can't be seen from the road.

"It's like having your store windows boarded up so customers can't see your goods when they pass," he said.

Scott said the firm will consult with its attorney, Milton Higgins of Bismarck, within the next few days to determine its next move. Possibility of the Sales Bing having to be moved from its present location due to low elevation in view of a rising Garrison reservoir has also been discussed, Scott said,

"There's a possibility we might seek assistance from the Corps of Engineers in getting a new location. However, that will be up to our attorney and we will folMore Than 300,000

he second Edinsecutive vear visifore gat. Carrison's Dami have ex-

eeded 300,000. The Army Engineers said 301. 412 persons stopped to visit the project through Sept. 30. Last year the total was 335,000 for January through December.

Daily guided tours of the project ended early in September. Since then only one guide has conducted tours, on weekends. The weekend tour program ends with this weekend.

Garrison Gain in

Water Storage Seen

By JACK BONE

tion that Garrison reservoir would lion acre feet in 1960. Pafford said. make a gain of 5 million acre feet compared to 23 million this year, of water storage during 1960 was Despite animoffic considerably below

The forecast was made by R. achieved by 1965, he said.

Passord, Corps of Engineers rep
If the anticipated gain comes J. Pafford, Corps of Engineers representative and secretary of the next year, it will largely be stored Reservoir Control Center at Oma-in the two upstream reservoirs. A ha. Neb. A Company

Pafford said the prediction was based on a normal runoff above Garrison reservoir, something that for the main stem reservoirs for has not eccurred in any of the the ensuing year were set up at has not secured in any control the ensuing year, which all as say been in operation but exceed Sept. 17 and 18 at which all afed in each of the five years before fected agencies were represented that?

somewhat earlier completion.

and the second June, 1961,

Titica Tunction-Slour

Fort Peck-First of two addion-

Big Bend powerplant-First pow-

er on the line due in July, 1964,

—into service in September, 1960.

Fort Peck - Glendive - Bismarck

for a total of 468,000-kilowatts.

al 40,000-kilowatt generating units

to go into service March, 1961,

|coming_storage in the : Missouri WATERTOWN, S. D.-A predic-river basin will increase to 30 milmade at a meeting of the Missouri normal attil year's storage is up Basin Inter-Agency committee here two million acre feet. Storage of 60 millioff acre feet should be

gain of one to two million acre feet is anticipated at Fort Peck.

Pafford said operating schedules

mously, but after "heated" discus-sion, Pafford said. Two" preliminary meetings were held before the final session; one on April 30 to which all interested parties were invited to testify and then a "detailed technical meeting" on May

ford said irrigation retains its uses of water in the basin, as originally established in the Flood Control Act of 1944.

However, in actual working operations for the year ahead, it was obvious from his report that other factors are getting consideration One change that will be made is a step-up of flows from Garrison through downstream reservoirs and into the river channel during the months of February and March planned as an experiment in flushidownstream.

230-KV line—Scheduled for service mal flows in the basin, if forth "paternalism" by the federal gov-coming, might make it possible to lernment in that program.

The schedule was adopted unani-

In answer to a question, Pafpriority for water over all other

Pafford said the extra releases are vance of the production of Garriing down the river channel and hardly an example of lack of regiving extra water to Kansas City||sponsiveness to power demands. for sewage, dilution. Missouri has complained. Pafford said that winwith seven 58,500-kilowatt units |ter releases of 9,000 cubic feet a | 1942, long before hydroelectric powfollowing at three-month intervals second are not sufficient to handle er was being produced by Garthe sewage load from Kansas City rison dam. He cited his own case Fargo-Granite Falls 230-KV Line resulting in an odor problem as an example of "local respon-

Power output on the main stem reservoir set a record in 1959. And of the 3.8 billion kilowati hours of power produced, 60 per

a sèc

Omaha

drirom Page 1) a hi

naintain navigation at

35.000 second feet at

cent was firm power. A million sacre feet of storage was lost to evaporation in 1959an

A new record also was set in navigation with 700,000 tons being shipped on the river between Kansas City and Omaha, up 300,000 tons from a year ago and three times the volume in 1953; his way

Fred G. Andahl, assistant sec-retary of interfor, made an un-scheduled talk at the meeting to defend his department and the Inter Agency committee from blasts leveled by Ken'r Holum, Aberdeen, S.D., executive director of the Midwest Electric Consumers Assn. 🔄 🤼

Holum charged that the MBIAC lacks "unified, responsive and responsible management in the Missouri basin," and that the department of Interior had not pushed the case for power with the same vigor that the Corps of Engineers had represented the case for navigation.

Aandahl said the power capabilities of the basin program are a "growing process" and must be approached with caution, but added "we are finding the answers as rapidly as is physically possible." Lile said ways are being studied to put power blocks together to assure the maximum of firm power and said surveys are continually being made in an effort to determine and meet power demands.

Noting that the Bureau of Reclamation had built power loops as early as 1949, three years in adson power, Andahl said that was

Aandahl said his own North.Dakota farm first got REA power in downstream. sibility" on the part of REA co-He also said the return of nor-tops and said he was opposed to

Power Consumers Assured of Supply

WATERTOWN, S.D.E. A Bureau power consumption is greatest. of Reclamation official here for The importing is necessary bethe Missouri Basin Inter-Agency cause of the continuing poorer-Committee meeting assured hydro than-average runoff in the upper power consumers an ample supply basin. Here are some of the target during the coming winter.

George A. Lewis, chief of power dates announced by Lewis in a resources and development, also paper prepared for the MBIAC: gave the target dates for various Oahe powerplant-First power reclamation projects in the Mis- on the line in July, 1962, with six additional 85,000-kilowatt units fol-

He said it would be necessary lowing at four-month intervals, to import 70 to 80 million kilowatt | Garrison powerplant — Fourth hours of electricity in the mid-80,000-kilowatt unit next January, November, mid-March period when and fifth unit next July, although construction progress may permit

Missouri Traffic 10-22-59 Rising; Full Use Bismarck Tribung

KANSAS CITY, Kan. (AP)-The Missouri River Basin Research and Development Council was told

the city commission who attended yesterday's hearing said, "We have to go along with the judge's decision whether we like it or not. The federal government's decision is first, above everything else. I feel there is no harm done, it's just a matter of going around and it will all work out for the interest of everyone."

Chamber of Commerce manager, Rhy David, who also attended the hearing, said he felt strongly that closing of the old underpass will do great harm to the Williston Sales Ring, and added, "It's to bad things like this have to happen. However, in major construction like the Garrison project someone is inevitably harmed. At least we have the satisfaction of trying to do what we could."

Clarence Meyer, Sales Ring manager said today the public would be encouraged to use the old road as long as possible. Closure time for the old underpass could be this fall or next spring as far as he knew, Meyer said.

until after 1967.

Charles A. Cocks, Omaha, planning section chief for the Army Egnineers, reported the traffic had gone from 152,000 tons in 1953 to 596,116 tons in 1953.

He said the lengineers do not expect to complete 'programmed stabilization projects until 1967. Under this program' the stream is being stabilized into a controlled nine-foot channel designed to scour itself, he explained.

scour itself, he explained.

J. Slaten Jenner, manager of the economics division of the Midwest Research Institute, Kansas Cily, said "proper development of the Missouri River could be the strong and single stimulant for a more rapid economic and industrial development in Kansas City and other areas of the basin."

ment of the Missouri Valley's potential had been retarded in the past by conflict of interests in the various states. He urged that varlous interests submerge their differences and work as a unit for the benefit of all.

Jenner said maximum develop-

line—Scheduled for tower construction award in July, 1960, and completion of conductor stringing by October, 1962.

Inecessary in the past to limit it to 6½ or 7 months because of inadequacy of flows.

However, during 1958, heavy pre-

Jamestown-Fargo 230-KV line No. 2—Tower contract award in April, 1960, and completion by January, 1962.

1962.
Jamestown-Grand Forks 115-KV line—Construction award in July, 1960, and completion in October,

1961.
Garrison - Minot - Rugby 115-KV
line.—Scheduled for award in May,
1960, and completion in October,
1961.

Oalte-Fort Thompson 230-KV, line No. 3—Tower contract award in March, 1960, and completion in early 1962.

Iowa lines—Two 161-KV- lines Sioux City to Spencer and Sioux

learly 1962.

I own lines—Two 161-KV- lines Sioux City to Spencer and Sioux City to Creston to be put under construction as soon as funds are available.

necessary in the past to limit it to 61/2 or 7 months because of inade-quacy of flows.

However, during 1958, heavy precipitation downstream helped maintain navigation supplies thus reducing demands from the reser-

reducing demands from the reservoirs. This downstream precipitation saved better than a million acre feet of storage, he estimated. It takes a flow of 25,000 cubic feet

WATER-Page 7

themal generating capacity, alone. He said studies have shown that substantial benefits, in terms of cost savings, adequacy of power, and continuity of service are to be gained from a pooled operation of the generating and transmission facilities of the area.

gained from a pooled operation of the generating and transmission facilities of the area.

Hill estimated that the construction savings would amount to \$110 million in pooled operation. He also declared that the studies indicate that 10 million a year could be saved in operating costs by such

a program.
The MBIAC will hold its 109th meeting Dec. 17. at Atchison, Kan., and its 110th meeting Feb. 18 at Lincoln, Neb.
Gov. John Davis of North Dako-

18 at Lincoln, Neb.
Gov. John Davis of North Dakota, chairman of the Missouri River States, committee an auxillary group, announced the governors of the 10 basin states will meet Dec. 16 at Atchison.

Jarrison Keport Predicted Congress by 1st of Year

JAMESTOWN in — The Board diversion project would be for-ling. The original Bureau of Recla-of directors of the Garrison warded by the Bureau of the Bud-mation report on the project pro-Diversion Conservancy District, get so as to reach Congress before posed the ultimate development meeting here Thursday, heard a Jan. 1, 1960.

The budget report is expected to gation in central and eastern rict's Washington representative, endorse the project to the extent North Dakota, with a first stage hat the report on the Garrison of 250,000 acres, according to Ris- of 407,000 acres.

Editorials

Garrison District Office Needed

For some time it has been ruiored that the U. Sharmy Corps f Engineers is considering elimice at Riverdale. 101 January

This is a move which should be esisted with every ounce of effort hat can be brought to bear by uptream states, and particularly Torth Dakota, as inimical not only o upstream interests but to the est interests of the Corps. .

Loss of the "industry" that the liverdale district office repreents would, of course, be a blow o this part of North Dakota. To ose 50 jobs would hurt.

The Corps has brought some excellent citizens to the state and it vould not be nice to lose them.

But this is not the most imporant consideration.

Elimination of the Garrison Disrict would mean that there would oe no representative of authority, and no engineer's office, north of Omaha, which would amount to

is close to the river navigation which is so important to it. But it is far from the other beneficial tant to advise the district in neation of the Garrison district of uses of water, such as irrigation, which it is committed to serve through such installations as Garrison Dam.

through such installations as Garrison Dam.

If there were any real reason to

Delieve that substantial — or even
any — savings were to be made by
such a "consolidation," it would be
lifficult to oppose. But the strong
hance is that, despite expected
tvowals to the contrary, such conolidation would achieve only book
avings, if that: Higher travel and believe that substantial — or even any - savings were to be made by such a "consolidation," it would be difficult to oppose. But the strong chance is that, despité expected avowals to the contrary, such consolidation would achieve only book savings, if that: Higher-travel and other costs would probably more than offset any claimed economies.

Rather than eliminating the Garrison District office the Corps woul do well to strengthen it and make better use of it through enlargement of its responsibilities. say by adding to its territory that part of North Dakota now served by the St. Paul office and by farm-Il but total divorcement of the ing out to it work which is now

In the plan, the irrigation water will be conveyed from the Garrison Reservoir through a vast' series of canals to the irrigable lands.

Other discussions among the 25-member board centered around plans for congressional hearings on the project during the next session of Congress, 75, Rep. Quentin Burdick (D-ND)

was scheduled to discuss the pos-sibility of Rearings in the House Interior Committee, of which he is a member, later in the day.

Other business included reports on the progress of contract negotiations between the district and the Bureau of Reclamation; ar-rangements to employ a consulgotiating, contracts; plans for the shore of Garricontinuation of the educational of Pick City.

Some Temporary Homes Being Sold Says Public At Riverdale

Twenty - seven temporary houses in Riverdale have been declared surplus by the Corps of Engineers and are being A South Dakolan Thursday screened through other Govern-accused federal agencies in

screened through other Govern-accused federal agencies in ment agencies for takers.

If they are not wanted by the Department in particular Department of Health; Education and Welfare, or other U.S. agencies, they will be put up for the public air a talk here; public sale biAlongur with the Kentfolum Abendeen bold the homes, located on Eighth Street, Missouri Basin Interfedent Comfive garages will be sold. "mitter at its 108th meeting that Last spring 17 living units lo-matters of controverse were too cated on Ninth Street in River often settled Dehing Flosed, doors, dale were sold, most of them Holum is executive director of the going to the University of North Mid-West Electric Consumer Assn. Dakota. Last summer one of the Another speaker said the havigahuge H-shaped dormitories was ton season was spanned to start sold to Father Lawrence Talty of March 25 at Ontal and end be-Donnybrook who is moving it tween Nov 8 and 11. However, to his Dominic Savio camp for the navigation season ended Sept boys being established on the 22 in event of adverse water, supshore of Garrison Reservoir north ply conditions which have prevailed in feetif yeart."

The building was cut into five WITHOLIT SAVING 50. Holum

WATERTOWN, S.D. IM-

are several sets of farm buildings in the Williston vicinity. River dale's population at the last census taken early this month was 1275, living in 406 homes. Ninety of the homes are of the permanent variety.

Gersal vigor, Homistand Corps (We. do not critical the Corps of Engineers for the principle senting their interests diligently by long as Congress permits affile type of mathematical permits affile to be as vigorous.

Hours and responsible management of the basin.

HOLUM SAID the MBIAC "has to outward appearances at least, avoided and minimized areas of controversy while you have listen-ed to a long series of papers of little controversy and of local in-

Low Bidders Told On Flood Project South of Mandan

vussouri basin.

It would very probably mean even more substantial domination of the basin by downstream influences than exists now, since the Corps would have no direct and daily connection with the people and the interests of the upper basin area. 🧠

Yet most of the Missouri River stretches not only above Omaha but even above Bismarck and Garrison. Transfer of the Garrison District's responsibilities to the Omaha district would give that district responsibility for the river way out to Three Forks, Mont., and beyond.

At Omaha, of course, the Corps now.

fice, and personnel to man it, are present now at Riverdale. To not use them will be to waste them.

Unless the Upper Basin, and its interests, want to be lost in the impersonal and disinterested bureaucracy of a district office unfamiliar with its wants and its needs and its people-unfamiliar except insofar as hasty "inspection" trips by plane can make for familiarity -the talked-of move should be resisted and defeated. The Corps itself, if it really wants efficiency and economy and places any value upon public relations and public support, should discard the idea

for two schedules involved in the • Issued bid invitations for Lower Heart River flood protec-Lewis and Clark roads and Bu-tion project south of Mandan, the ford-Trenton irrigation project Corps of Army Engineers announ-bank stabilization work, in the Wil-

Corps of Army Engineers announced.

Schultz & Lindsey, Fargo, bid \$252,267.40 on the unit below. Mandan A. Smith Contracting Co., Inc., Kansas City, Mo., entered a bid of \$22,922 on the Sunny unit of the project.

The government estimate on the unit below Mandan was \$274,932.16 and for the Sunny schedule upstream from Mandan was \$23, pletion deadline, is November, 1959.

The project consists of building dikes and other works for protection of the Mandan vicinity from flood waters of the Heart, a Mispouri tributary. Deadline for work fric Co., Bismarck, Delivery dead-Other recent action of Army En-line is May 1, 1960.

quarters here:

• Awarded a \$20,135 contract for building Garrison reservoir access roads in the Tobacco Garden-creek area south of Williston

gineers at Garrison district head-

32.16.
The project consists of building 1959.

• Awarded a \$32,364.72 contract

settlements reached behind closed

He said, "You must be willing to face controversy in public, hear the various points of view and arrive at decisions with the public and press in attendance."

Holum asked that the MBIAC policy, forming group for Missouri development at a future meeting publicly debate the priority use for

AN ARMY engineers' report said the Gavins Point pool will be lowered to the flood season levels by



Lists ne New Project Start

Fiscal 1960 will be a completion. Included in these excavations [1 ear's program outlined in the voir in South Dakota. uarterly report of the Depart- Special emphasis was placed on nent of Interior.

Only one project will start durng the year in Region 62 the conroversial East Bench unit on the Beaverhead River Tribar Dillon which escaped the ban on new tarts after a bitter congressional attle early in the year.

Construction plans for relocatng the Union Pacific Railroad n the reservoir area call for a contract to be let late in the year. eccording to the report.

Investigations Continue

Investigations continue into other projects which have not been 'firmed up," including a small sum set aside for contacting Powder River area residents who nave indicated interest in basin levelopment.

Construction progress was narked by completion of Spokane ey unit, while moving ahead of chedule on north and east side aterals.

ex early in the quarter and work port. tarted on rehabilitating outlets. thin Shermurne Lake Dam, Innethods of sealing Helena Valley eservoir against seepage.

15.1634%+ Towers March

Near Fort Peck, steel towers narched across country waiting tringing, of wire to complete the 30 KV Kort. Peck-Dawson County-Bismarck transmission line. 🦿

Another transmission line, the Targo-Granite Falls 230 KV line. vas carrying wire allead of schedle while another, the Bismarckamestown, 230; KV No. 2, is con-iderably behind schedule.

A contract for Anchor Dam and is access roads in the Owl Creek nit in Wyoming has been extendd another year. Approximately hree-quarters of the job is comleted.

On the Glendo unit of Wyoming,

nd planning year for Missouri were a number of sites in the area lasin activities, according to the soon to be flooded by Oahe reser-

> a rectangular house culture un derlying previously uncovered circular earth lodges!

> North of Mobridge, S.D., a rectangular house site beneath three circular lodge sites revealed an entire sequence of fortifications and defensive strictures with "strong points."

Temporary Repairs :

Elsewhere the park service reported that temporary repairs have been made on all Yellowstone Park roads damaged by the Montana earthquake Aug. 17. Permanent repairs will be completed early in

The quake did little damage to Yellowstone Park buildings, the service stated. However' the area has been redesignated a quake zone and the building code modifled with that in view.

The quake had only minor Bench laterals in the Helena Val- effects on thermal activities in the park although Fountain Paint Pot and a number of smaller geysers and springs have become In the same unit a contract was more active, according to the re-

A special geophysical team will visit the park in 1960 to observe estigations also were started into thermal activities and record notable changes.

Power should be available to all developed areas of Yellowstone Park early in 1960, according to progress data of the Montana Power Co. contained in the report.

In addition the park service is continuing a series of surveys into land use for recreational facilities and improving lands near reservoirs for recreation.

Effect Studied

At the same time the Bureau of Sport Fisheries and Wildlife continues a study into the effect Missouri Basin projects have or will have on fish and game.

According to the report, the first quarter of fiscal 1960 was uneventful with the exception of the change in fishing conditions onstruction of Fremont Canyon lin the Madison Valley caused by

Mineral surveys by the Bureau of Mines on four proposed dam sites. Mission, Yankee. Jim, Emigrant and Lower Canyon on the Yellowstone River: near Livingston, are planned foli lowing preliminary investigations, by the Bureau of Reclamation.

During the first quarter the Bureau of Mines completed two projects on the storage and size reduction of lignite and continued others on freezeproofing and pressure gasification of the mineral.

Data, collection for reports on the petroleum and natural gas in the area continued with one report "Petroleum and Natural Gas Fields in Wyoming" due for publication soon.

Seepage Investigated

Testing and investigation of water seepage from dams and canals is under way in a number of areas with special emphasis on lining materials that will prevent water loss.

A mineral exploration contract was let, according to the report; to Baltimore Syndicate, Ltd., for

a lead-zinc-copper project in Jeff-

erson County. The total contract was \$22,930, with, \$11,465 in federal participating funds.

Project investigations has been continuing throughout the area by the Bureau of Reclamation.

A definite plan for the Chestnut Valley unit — on the Helena-Great Falls division - has been completed and is undergoing final checking.

The Jefferson unit and Yellowstone division have been the scene of extensive topographical and classification surveys.

The report said Fallon and Terry benches were discovered to have a slight slope to complicate water distribution and require increased leveling.
Other mapping and classifica-

tion surveys were carried out in the Garrison Diversion unit in North Dakota and plans for passing water through Arrowwood National Wildlife Refuge apbroved by the Bureau of Scort

Buck Warus Independent Record

On Loss of Helena Mont **Water Rights**

11-10-59 Montana will lose its water rights to downstream states if precautionary measures are not taken, Fred Buck, state engineer, told Helena Kiwanians Monday.

Speaking before the regular weekly luncheon meeting of the club Buck stated that with the vast increase of population in the country along with increased use of water by the average person, water shortage may soon be a major problem.

If downstream citiés and states are allowed to build large water consuming projects while Montana sits around doing nothing the state will not be able to acquire water rights when it decides to construct some projects in the future, Buck continued.

Form Compacts

Two ways to guard against such things are for the 10 states drained by the Missouri river basin along with the three drained by the Columbia to form compacts which provide for a somewhat equal disposition of water, he said. The other measure would be to start some projects in the state which would insure Montana of getting its just amount of Montana water.

Buck added that currently about 41,000,000 acre feet of water leave the state each year and that about two thirds of that amount originates here. About one third of this amount is handled by the Missouri and two thirds by the Columbia.

Other Problems

He said that there are also other problems facing our water supply with polution being probably the the greatest. Steps are now being taken however in the work against pollution and it seems to be pretty well in hand.

Montana needs its water for recreation, navigation, power and irrigation and if its people do not wake up soon the state's water ieen let.

Construction contracts for the ilso have been let, although work ias not started.

Work Rapidly

As construction moved steadily oward completion on many projects the National Park Service worked with state institutions and

of key sites and sampling of secondary sites to a general sampling of all sites, according to the reoott. Sites, according to the reoott. Sites, according to the reoott. Much information and material
mained can be fitted to the frame-Work! of scultural ; information . previously gathered from more thoroughly excavated sites. 51 12 The change in procedure was caused by limited crews and funds; competing with rapidly filling res-

ervoirs, according to the report.

show that fishing is remaining good. Another visit was made Iray Recf Dam in the same unit to Yellowtail dam site to examine possibilities for access now limited exclusively to the dam's stell Throughout the quarter the Geological Survey continued gathering information concerning

he Smithsonian Institute to ob-Hour-state area, Montana, Wyoain archeological and historical ming and the Dakotas, including nformation before known sites; reports on past floods with an

surface and ground water in the

pecame covered with water.

Field work by the Smithsonian hanged from major excavations quality and sedimentation of the water continued, plus studies of methods designed to improve conservation practices.

40 Per Cent Done The Bureau of Land Manage ment completed cadastrat striveys on 40 per cent of the acres of programmed for fiscal 1000, in cluding 52,000 acres on the sarastruhe unite fire both. Dakota include 37,000 acress of class 1 that class 3 land could not pay

maintenance. A study on the Wagner unit-indicated that lands considered irrigable have never caused Selenium poisoning, and that cases of poisoning have been in isolated areas and along steep lands near the Missouri River, the report said.

In Wyoming, investigations continued on the Wheatland unit Dodge Canyon dam north of Laramie.

Buck was introduced by Russ land 2 lands, since stildles showed. Stein, program director. Guests at the meeting were Norman J. the cost of construction and Robbins and Bill Kearns of the Carroll College Circle K club and Ward Shanahan of Helena.



ATORS FROWN OVER STATISTICS - Four United chairman, more familiar with former Indian Territory than with es on. At his right, Sen. Robert S. Kerr (D-Okla.), committée

mators, members of the Senate Select Committee on Na- the vast reaches of the Treasure State, checks Montaha, place midable array of statistics to support his the six a witness af the left, James E Marray (D-Mont.) looks at his hotes as a witness to his right is Sen. Milton R. Young (R-N.D.).—Carp's photo.

6 Complete Testimony

At Water Needs Hearing

, and continued in Laramie, o., Thursday and Billings Fri-

ommittee members are schedd to go to Missoula an-er session Monday the series I end in Boston Dec. 8.

nes E. Murray (D-Mont.) and prevent waste," ton A. Young (R-N.D.). Raff, who is

Andersh First Witness he first witness was Rep. Le resources and described the pow-

Ateen ny Messes Completed noon before the committee seek hours lightesses Completed noon before the committee seek hours lightesses to the Senate See ing information on the long. Mahoney, who seeks to use the long water to generate pow- The Wildlife Federation for Montana waters to generate pow- The Wildlife Federation for Montana consumers, rec- ficial pleaded for an ecological noon before the committee seek. Suggests Values Scale, ing information on the long. Mahoney, who seeks to use resources were Dr. J. C. Hide of or Montana waters to generate power ficial pleaded for an ecological merce friday. Bozeman, professor of soils at ommended a scale of values. Bozeman, professor of soils at ommended to senators that water and Everin suggested that the learning was the third in Montana State College; Colin W. He suggested to senators that water and Everin suggested that water and Everin suggested that water on summer of professor of soils at ommended a scale of values. Baff of Butter Charles Mahoney water consumption for personal in their decisions and every agencies alleged to senators that water and Everin suggested that one water solutions the learning of water resources agencies alleged to senators that water and Everin suggested that needs should have first priority, of water resources agencies alleged to senators that water and Everin suggested that needs should have first priority, of water resources agencies alleged to senators that water and Everin suggested that needs should have first priority, of water resources agencies alleged to senators that water and Everin suggested that needs should have first priority, of water resources agencies alleged to senators that water and Everin suggested that needs should have first priority, of water resources are resources. Billings, Leonard Kenfield of next should come arrigation, then quately evaluate impact of pro-Great Falls, Dr. Wilson F. Clark power, navigation and finally posed projects on all resources.

Billings, Tom Deckert of Br. recreation are all recreation the proposed projects on that if power the proposed too, that if power

before members of the com. water conservation. He said, "We tee, Sens. Robert S. Kerk (D. are approaching maximum use of deve a.); chairman; Thomas H. our water resources and we need ects. chel-R. Calif.), vice chairman; all the information we can get to

Raff; who is a vice president of Montana Power Co., traced his firm's historic interest in water,

and Willard E. Fraser of Billings, the National Rural Electric Co- revenue therefrom be diverted to operative Assn. and president of defray cost of fish management er sessibit Mondayi The series reed to Frevent Waste the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the High management the Yellowstone Valley Burkl which is complicated by such inserting the Yellowstone Valley Burkl which is completely burkley burk tial to a long-range program of power in rural areas in the last spoke in behalf of the Billings water conservation. He said, "We decade had resulted from power Chamber of Commerce. He urged

lines, which he said, had con-River. tion Administration.

Outlines FU Policy

Deckert, president of the Montana: Wildlife Federation, and Everin, director of the Montana Fish and Game Department, dis-cussed, recrettions, aspects of

lings, W. J. Evering Helena Lackman, Region 9 director of dams be built a fraction of the

development by government proj- the committee to consider among early projects for water resource He also, commended the estab development construction of Xel-lishment of federal transmission lowfail Dam on the Big Hom

tributed greatly to the reduction . After completion of its series of rates by the Rural Electrifica of hearings the committee will compile its information for presentation to the U.S. Senate before Mayor Testifies

Clavadetscher and Waldo projected the water needs of Billings and the latter also presented testimony for the Montana Water Works Assn. and affiliated organizations.

Fabrick stressed importance of irrigation use of water to promote agricultural stability in Montana and described for the senators co-operation between the Montana Water Conservation Board and the Federal Reclamation Bureau.

In testifying in behalf of Dr G. D. Carlyle, Thompson of the state health, board, Clarkson stressed the need for planning for adequate supplies of surface water, recognition of the priority of domestic use, adequacy; of hy-draulic data, and need for edoperative planning of water

The committee was established during the lastisession of Congress under a bill introduced by Seff Mansfield. It seeks information on water needs for domestic uses. agriculture, industry, power generation, flood control and recre-

Flood Danger Deep Channel

BUTTE (UPI)-Madison, Valley will no longer be in danger of flooding from Quake Lake when the Army engineers complete their work of deepening a channel through the mammoth landslide which formed the lake, Lt. Coll Walter W. Hogrefe said Tuesday,

Hogrefe heads the Army Engli neers detachment which is cutting the mile-long channel through this

However, Allato testimony was state. He attacked the preference releponence shall instructed a clause in federal power market in legislation of contributed in gration of power in the Treasure gration of power in the Treasure state.

State.

State.

Speaking as president of the unitary state of the interpolation of the interpolation

eas The Minist started.

Hits Preference Clause

After detailing economic adntradicted Entities afternoon After detailing economic adaren Frank when the Bull vantages of the Montana Power 184 of the United States Geo-Co. plan, Raff argued that its gical Survey told the commit-e Montana Mast vasto ground tion of plants unnecessary in the nterferestolkers of the committee of plants unnecessary in the

hund water studies made in crash programs a few decades allating and adjoining counties hence when population and coid sald work in many of those nomic development will multiply. demands for power.

In response to a question from He agreed with Raif that Mon't e chair swenson said that the tana Power has adequate power, distence of ground water is but pointed out that it is not ot totally. independent of sur-available to residents of eastern ce water in Montana. . . . Montana where, he declared tage exists.

of soil construction of the 160 sere limitation under the Reclamation of the 160 sere limitation under the Reclamation Act, increased availability of receasing powers, river proposed a study of stack water-development, in the REA administrator and the establishment of a Missouri Passure of the Missouri Passure of the witnesses at the morning session of the delect constitute of the witnesses at the morning session of the delect constitute of the witnesses at the morning session of the delect constitute of the witnesses at the morning session of the delect constitute of the witnesses at the morning session of the delect constitute of the witnesses at the morning session of the delect constitute of the witnesses at the morning session of the delect constitute of the constitute of the witnesses at the morning session of the delect constitute of the constitute of the constitute of the witnesses at the morning session of the delect constitute of the constitu

Missouri Valley Resource Corp.

Where A questioning by 1986.

Kerr, Kentield admitted that the resources corporation is nothing mayor Carl J. Clavider with the Missouri Valley Authority in a different guise.

Lirges Conservation of the Missouri Carl J. Clavider with the Missouri Valley Authority in a different guise.

Lirges Conservation of the Missouri Carl J. Clavider with the Missouri Valley Authority in a different guise.

Lirges Conservation of the Missouri Carl J. Clavider with the Mayor Carl J. Clavider with the Montana Water Conservation of the Montana Water Conservatio only a facet of the problem.

rst Congression Mar District. generating plaints to its hydroAnderson by Mar the sentiors electric complex with the promise of only resident. Kentled, who have the need for Yellowtan Dam and sides in Great Falls, told the for a soil and water conservation of committee Total Station of adequately meeting power of soil conservation of soil conservation of soil conservation of advocated allocation of soil conservation of soil conservation of advocated allocation of advocated allocat

Hogrete told the Butte Exchange Club the job of deepening the chant nel should be completed by the end of this month:

"When we are finisheds there will no longer be a flood threat to the Madison Valley," Hogrefe said

The engineers, using bulldozers power shovels and other heavy equipment, carved a channel through the slide soon after the quake. However, Hogrefe sexplained, water erosion on one end of the channel, made it clear there were not as many rocks in the slide as originally thought.

Thus, he said, it was necessary to cut the channel deeper and reduce the capacity of Quake Lake to lessen the danger of flooding.

By Oliver Borlaug

Shortly on the heels of the "period the l'announcement that the District Corps of Engineers office at Riverdale may be eliminated. There would be a literal handful of families remaining at under construction. Riverdale to man the power plant, for

in these developments than most of our reople are aware of

While agriculture will atways be our No. 1 source of income, not much vision is needed to see the need for that type of economy to be bolstered by other activities which would also give employment opportunities lost through automation on the farm. This forces our young people, not only high school but more than one industrial plant; they also degree engineering graduates from our colleges and university, to leave the state of their birth because there are no opportunities here.

And, industry would indicate that The alternative to growth is stagnation followed by a slow, lingering death, not only of an area but of the dreams, ideals and investments of its people.

For selfish reasons, we in McLear county are concerned about talk that would in effect "kill" Riverdale as far as our circle of communities is concerned. All of us number among our friends people in Riverdale: It has a fine school which particularly in years past has "made things interesting" in the world of interscholastic sport: Its péople have shopped in our stores, have joined in the hunt for game, and have worked with those from our other communities in church and social work.

YEARS: BACK, while we all were yearning for the benefits which "just one" industry in the area would bring an engineering firm from farther East of silence" on the part of the North was quietly conducting a survey and Dakota Nitrogen Corp. on their plans making tests. Involved was a plot of for the Riverdale chemical plant, came ground near Riverdale, and the biggest pile of coal we ever saw—the coal that had been taken from the ground during the time the Garrison dam project was

Some time ago, we all joined in concustodial and similar ducks siderable jubilation; North Dakota Nit-Mckan county has reater stake rogen was to build an agricultural chemical plant at Riverdale, using North Dakota's greatest resource besides its people-Lignite. This engineering firm. an impartial organization, had decided that Riverdale would be the best spot for such a plant; that use of lignite was efficient. Construction on this plant was to begin "in the spring."

Visionaries and realists alike saw saw the possibility of more perhaps even of the "lignite complex" which someday will be the salvation of our state, insofar as industry is concerned

To offer even further encouragement we as a county and state are growing, was the report from the engineering firm which indicated an industrial plant in this area was not only feasible but desirable — better news than we had ever dared hoped for.

But, like a circus balloon suddenly punctured, we are suddenly again faced with reality. We are in the cold calculating business world-small potatoes; that the larger community, with more to induce an activity of any kind whether it be a dentist or an airplane. plant, is in a better bargaining position or place of influence to attract industry. To even further confuse and perplex: as far as we know, the company has not made a public statement in regard to what site it plans to use; that appar-We are proud of Riverdale; we want ently the report from the engineering and the deligible and

Iffigation Experi Duties Are Two-rold

By JACK E. CASE Tribune Staff Writer

Farmers in the Garrison Diver also has retained to aid in the sion area will have the benefit of Contract study.

expert advice to guide their deci hat Parker's duties here will be tracts offered by the federal goy selon the contracts he will advise ernment.

also be aided by legal counsel provided by Bismarck attorney William Daner Angin, the board

ernment.

The Conservancy District has farmers and the irrigation districts employed Engineer H. A. Parker on operating methods.

As the districts have the reproposed contracts and advise the sponsibility of delivering the water district regarding its provisions.

This advice will be based on operation and maintenance, Parker of professional experience er will suggest the type of operation and maintenance of professional experience and maintenance of with irrigation projects, and will ating organizations the feels is best suited to the various irrigation areas:

> IN SOME CASES he is expected to advise that work be carried on jointly, by several districts. He will also suggest the number and type of employes needed.
>
> Most, of Parker s work, how

> ever, will be concentrated on the provisions of the contracts the government is offering the Conservancy District and the individual irrigation districts.

> Because of irrigation's complicated operations, the contracts themselves must spell out technical details difficult for a layman to understand. It will be Parker's task to interpret these provisions and advise as to their acceptibil-

> TWO TYPES OF contracts are involved and Parker will consider both of them. There is the "master contract" between the federal government and the conservancy district, and a "three-way" con-tract involving the federal government, the conservancy district and the individual districts. The conservancy contract cán be approved by the directors but individual farmers will hallot on acceptance of the irrigation district terms.

> The relationship between the three has been likened to that between a manufacturer, a wholesaler, and a retailer. In this case, the government in adulactures the water, and delivers it to the conservancy district. This portion of the transaction is covered by the master contract.

THEN, AS A "wholessler" the

UNPERWIND COPPOSES Elimination of Garrison District Riverdale Office

The October meeting of the Underwood Commercial Club was held Monday evening in the basement of the city hall. A big share of the meeting was taken up wth arrangements for the Pancake and Sausage supper to be served Saturday; Oct. 24th.

Marvin Scott. Art Wohl and Frank Lutz are on the committee in charge of arrangements for the supper. They have appointed chairmen for the various departments and all citizens of the city and community are urged to help-out with the project whether or not they are members of the club.

The club voted to furnish a lunch at the annual McLean County Crop Show here on November 6th and . a number of business people volunteered to furnish the door prizes for

the event. Arrangements were made to have Santa Claus in Underwood on Saturday afternoon. Dec. 12th at which time he will talk with the children and pass out treats to them with the help of his assistants. The Christmas decorations will be put up about Thanksgiving time.

The meetings throughout the

hing which would promote the growth f our newest city.

And, North Dakota stands on the rink of a new era. Part of that new ommitment made in 1944.

rously protest elimination of the Gar-

peen crowded out by factors which we can only guess.

ON BOTH COUNTS-N. D. Nitrogen ge will include the irrigating of one and the closing of the District office at fillion acres of land, a project which Riverdale—it would be easy to take a congress, promised under a solemni fatalistic, "What's the use" attitude This we do not choose to do. Civic or-Because the people in the District, ganizations should most strongly proffice at Riverdale are more aware of test closing the Riverdale office of the ocal situations, trends and the attiludes Corps of Engineers, and as far as N. D. f our people on current issues, and are Nitrogen is concerned, the public is, n a position to make suitable recom- entitled to know why Riverdale has iendations, we in McLean county should apparently been abandoned as a plant se our every resource to mostiving site; why the public has not been informed why the decision to use Riverison District and its office and staff. dale has apparently been cast aside and why the findings of an impartial engineering firm, as far as the site is concerned, have been disregarded.

It is a serious matter. Now is notime to throw in the towel. We in the smallerpopulation areas want to grow too like our cousins in the Bismarck Mandan. Vahpeton and Grand Forks areas.

The Commercial Club, adopted a resolution opposing the elimination of the District office of the Corps of Engineers. Copies of the resolution will be sent to headquarters of the Engineers Corps and to the North Dakota Congressional delegation:

Reservoir Water

RIVERDALE - Water releases from Garrison reservoir currently; are averaging 12,000 feet per. second, Ralph Oehler, district hydrologist, said today. Last weekend they were reduced from 15,000 cfs which had been the rate for several wecks.

vecks.
The reservoir went into its winter operational phase early in October when the releases were cut from 20,000 to 15,000 cfs. The reduction was made possible through the closing of the navigation season on the lower Missouri river, the engineers said.

the retailer, which provides the water to the inividual farmer.

The irrigation district contract Parker is studying now is the one specifically, offered the Dickey-Sargent district, but it is typical of those that will be offered to others. In general, it provides for repayment of all portion of the costs, the amount of water to be supplied and the relations between the irrigation district and the conservancy district. This involves operation, inalitenance and provisions for the "missing acres", which consists of irrigible acres owned by farmers who don't want to be included in the program.

IT IS HOPED that Parker will have a preliminary report completed and ready for presentation to a special nine-director coordinating committee in Jamestown Nov. 5. This committee consists of directors of the conservancy district.

istrict.
The ultimate targer is to have all objections reviewed and revi-sions agreed upon by the time hearings on Garrison Diversion start in Congress next year. These will be considéréd af the January meeting of the conservancy board.

\$19 Initial Payment

To Water Treatment Plant Contractor Approved By City

Initial payment for construction work on Williston's new water plant was approved Tuesday night by the city commission.

The sum was \$19,317.22 on a first estimate submitted

by the carrand A. Contractthe treatment plant?

In order, to make the payment \$50,000 was transferred from othe city water account to the water bar construction fund of the large transfer might as well be made now since other estimates would be coming in a very large transfer might as well be made now since other estimates would be coming in a very large.

Alec Rawitscher, president of the commission, was authorized to en-ter sho an agreement with the Great Northern Railway, for a right-of-way easement for water-intake work on the GN property at the edge of the river, during construction of a portion of the new water system.

The commission also approved an agreement with the state highway department to acquire land within the city for the by-pass to be built by the state, and also pay 25 per cent of construction costs for a section of the by-pass within the city on north Second street and in the northwest part of the

The hity's estimate of the share of construction costs is \$27,145, or one-found in the total cost of \$103,-000 in that section ()

The city also is applying to the government for federal aid in help-

ing payithe cost in the cost of the cost o tions in the Scott and College Hill additions. This was presented by L. & S. Improvement Co. at a bid of \$22.801. The commission decided hold action over for a

Attorney Al Hackenberg aperty of the Knollcrest addition at the extreme northwest part of the city. Hackenberg explained property owners had paid

ing Co. which is building areas, especially Senior High hour. Present limits are 20 miles

Award Contracts Mandan (ND) Daily Pioneer On Lower Heart

By The Associated Press The Corps of Engineers has announced award of two contracts for work at the lower Heart flood control project at Mandan.

Schultz & Lindsay Construction Co., Fargo, received one contract on a bid of \$252,267: alsecond contract went to William A. Smith Contracting Co., Kansas City, Kan., at \$22,922. The latter is for a portion known as the Sunny unit.

The dikes will protect Mandan and vicinity from flood waters of the Heart River. Deadline for completion of the work is Nov. 1,

Sites Other Than Riverdal Being Studied For N. D. Fertilizer Plant

BISMARCK, N. D. (AP)-North G. Van Nostrand, and Col. Walter of using lignite, as, a raw materia Dakota Nitrogen Col. Bismarck, W. Hogrefe of the Corps of Endorchical Tertilizer.

We house a part of the control of the corps of Endorchical Tertilizer.

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We have the corps of Endorchical

he idea. says that negotiations for the lig-indicated it would use this coal In an announcement issued joint nite have been delayed to permit and probably build its plant at ly by the firm's president, George further research of the feasibility Riverdale on property leased from

the government.

"Says the new announcement."
"When it became clear from the site survey that some delays could be avoided by using a site other than Riverdale for the initial plant, we so advised the government.

"However, we have assured the government of our continuing interest in finding economically feasible uses for lignite; and our proposal should permit continuing research to develop such uses for this raw material abundant with-

in the state.". Officials of the firm refused to add much to the brief announce-

One official said, However, that the company is closer to actual construction of a plant than ever before and that about a dezen sites are being considered for its location.

There has been speculation that the firm might decide natural gain a more feasible raw material for nitrogen fertilizer than lighite, but the company wouldn't comment on this possibility.

Riverdale is a town built by the government to house Corps of Engineers officials and other persons connected with the construction and operation of Garrison Dam across the Missouri River.

Engineers Man

Detailed Surveys Reduce Diversion Irrigable Acres

By JACK E. CASE

of land in the Garrison diversion tailed surveys require at least area which will reduce the irrigi-four times that many tests, and ble acres by about 10 per cent. usually considerably more.

This is reported by Bruce Johnson, projects manager for the Buceau of Reclamation) who released details of the survey which has been conducted over the past two years.

Involved were 100,000 actes in the Oakes and Warwick-McVille ity.

In general the new survey discarded land for two principal reasons, topography and permeability.

THE CLOSER TEST holes plus

rigible" under the semi-detailed report now being considered by extensive talks with landowners. the Bureau of the Budget.

"This always happens, and is ing before irrigation would be always regrettable," Johnson commented, "but is of no great con- The permeability for which land sequence, because there are plen- was discarded involved both ends ty of other areas in North Dakota of the scale. In the Oakes area

loriginal report was made is classified as "semi-detailed". It in-Tribune Staff Writer fied as "semi-detailed". It in-Detailed surveys have now been volved boring about four test holes completed on some 100,000 acres for each 160 acres of land. De-

THE CLOSER TEST holes, plus produces information on sub-sur-Closer scrutiny provided by the face rocks, for example, that detailed survey has eliminated about 10 per cent of this land from the irrigible classification, Johnson said.

where those acres can be picked land was rejected because it would contain water too well, while in the Warwick vicinity some THE SURVEY under which the was found that wouldn't hold it well enough.

JOHNSON SAID that field surveys have the finished in the Karlsruhe and Souristareas which will result in souristareas which topographic grounds ?

Effect to the surveys on the whole diversor, project will be

Interior Official Labels

1953, the amoney to be used to grade the streets. This, he said, has not been done; adding that lack of thoroughfares has made sale of the lots difficult. There are only: two homes in the area. Hackenberg asked that the money either. be repaid or the streets main-

City auditor H. L. Grimstvedt explained that \$25 had been paid on 76 lots.

The commission held final action over until next week pending an investigation into the problem.

Grimstvedt also told the board a request had come in for a new stage at the new armory, the claim being that the present facilities for a stage are inadequate. The commission called for an investigation into prices with the view of acting on the matter at the next meet-ing. Commissioner Carl Albers said a new stage had been suggested as one of the early projects following the completion of the ar-

mory (1)

Λ description from the Pacemakers Club appeared before the board asking that speed limits in school

the Garrison diversion project report, he said. "sound" and "a program North The government official called Dakota can be proud of." "

undersecretary of the Department new version provides for 250,000 power conference at its banquet Attending Tuesday's conference Tuesday night.

Bennett said, "we feel that the North Dakota, South Dakota and state is entitled to fairness for the Minnesota. land its farmers have given up to get main stem control of the Missouri River."

fore. Congress before the first of electrical power.

FARGO((AP) - A U.S. govern the year, Technicalities of wordage ment official Monday night termed now are being worked out in the

the new version of the Garrison Speaking was Elmer F. Bennett, report "economically better." The of Interior. Bennett arrived here acres, instead of a million acres to address the sixth annual area for start of the diversion project.

were power representatives from

ricultural Campus, a smorgasbord He said it is expected the Gar-luncheon and discussion of various rison diversion report will go be-technical matters pertaining to

elimination of them completely. Only in the case of complete canal elimination would the expense reduction be proportionate. Johnson said that in a few areas at appeared it would be sisible to eliminate a canal completely.

Take Rafts From Garrison Reservoir, Engineers Warn

RIVERDALE TELEFIE and swimming rafts should be removed from Garrison reservoir waters before the freezem this fall, the Army Enfgineers in Riverdale warned today. If the devices are left war the winter, the engineers said fley are likely to break lobse from moorings and cause an expensive salvage problem. The rafts referred to comist of wooden platforms manual for empty oil barrels and fine exist in most every public beach about the reservoir, the engineers report.

The present Garrison District Office of the Corps of Engineers. will not be closed and combut will be changed to an area. office, it was learned Saturday. The Garrison District Office

is located at Riverdale 100 'A member of the staff of Sen., Milton R.: Young (R-ND) said Maj. Gen, Keith R. Barney, division engineer for the Corps at Omaha, said any reports about closing the office

were in error. Changing to an area office, contemplated next apring. willmean a transfer obtonie activities to Omain pur activities to Omain pur activities engineer, and fills state will remain at Rivertales.

JULIAISO AU DIODOSAIS ... V -- WEV IS

Age to Drawn For Minot MB C Meeting In April

A proposed agenda for a meet- The commission, the Game and ing of the Missouri Basin Inter-Fish Department and the Bismarck Agency committee in Minot next park board will join in the Rice April was drawn at a meeting of the North Dakota Water Conservation commission in Bismarck Fri-leigh county.

Five items approved for the agenda called for:

1. A presentation by the generation and transmission cooperatives in the state, which will be made up of various REA cooperatives. The private power companies will merchandise surplus power pro-

2. A presentation on the International Joint Commission by representatives from the Canadian quests for installation of drop government and the U. S. govern-structures in Drain 22 in Cass coun-

4. The responsibility of power plications. and reclamation as paying partners in the development of the Missouri Basin project.

5. Developments of the saline water program, presented by a Washington, D, C., representative of the program.

The commission adopted a resolution urging the Corps of Englneers to start work immediately on stabilizing the banks of the Missouri river.

The commission said that remaining Missouri river bottomlands are being eroded away at the rate of 500 acres a year between Bismarck and Garrison

Officials have said this erosion was speeded up by construction of the dam. In its normal water course, the river replaced about as much land as it eroded.

The Corps also was asked to consider an emergency project on the Sheyenne river to alleviate possible flooding in the West Fargo area. The corps has authority to construct projects up to \$400,000

without congressional approval. State Engineer Milo Hoisveen was asked by the commission to hold hearings in the West Fargo area on the question of establish-

Also approved as the request of Gov. John E. Davis that the Corps of Engineers maintain its Riverdale station as a district offices rather than reduce if to an area office. The Corps has said the change will be made as an 'economy' move, with some Riverdale functions moving to Omaha Line

The commission approved rety and Drain 64 in Richland coun-3. An interim report on the find-lty, agreed to continue survey work ings of the Select Senate Committin the Lake Metigoshe area, and tee on National Water Resources, lapproved several water right ap-

For New Plant

Williston To Hike Water Minot Daily News Rates, 11 axes WILLISTON - Residents here

face higher taxes and higher water rates to finance the \$3 mil-lion water plant and intake structure under construction, a financing plant approved by the City Commission, discloses.

The Corps of Army Engineers will provide approximately \$1 million toward the total cost and the City Commission proposes the rest be raised as follows:

\$900,000 by a special assessment? to be collected at the rate of \$45,-000 a year plus 5 per cent interest

for the het 20 years.

\$350,000 Tyle citywide general
tax to be paids it the rate of \$17,500
annually, requiring a two mill tax

rate increase. \$750,000, an estimated figure, to be raised by an increase in water

Bismarck Said Not Fewsible

engineers say a proposed low of building a dual purpose dam. tion. head dam on the Missouri River near Bismarck, N.D., is not feasible economically or engineering or engineering wise.

The dam would provide a cross- While there would be an ining for the projected interstate crease in recreational boating fable economically or engineering wise.

The dam would provide a cross- While there would be an ining for the projected interstate crease in recreational boating fable wise.

The dam would provide a cross- While there would be an ining for the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreational boating fable with the projected interstate crease in recreation with the projected interstate crease i

nounced by the Missouri River and so there would be no flood through increased algae growth. division office of the engineers. control benefits. "The power benedits authorized by the fits that could be derived would in, the Missouri River indicate Senate Public Works Committee be insufficient to justify the con-that the life of the reservoir be

OMAHA (AP) - U.S. Army gation to determine the feasibility prospect of commercial naviga

The engineers' report said the said. The water supply for the city The unfavorable report was anstronge capacity would be small of Mandan might be affected

struction of power general facili-hind the dam would probably not Local interests asked the investi-lities, and there is no immediate be longer than five years.

Budget Bureau Said 'Hopeful' Of Early Diversion Report.

has been notified by the office of would be required. Bureau of the Budget is) "very of the Budget Bureau, North Dahopeful" that its report on the kota reclamationists will face a big Garrison Diversion project will be job in getting favorable action on in the hands of Congressional committees in advance of the Jan. 4. He said plans have been mapped opening of Congress.

tary of the Water Users, said the mission, Garrison Diversion Coninformation was received from a servancy District, and the Water high ranking official of the bullers to meet with the state's concreau. The official reported some gressional delegation to map stratadditional information on the 250-000-acte project had been received last week and was being tabulated last week and was being tabulated and the following state of the sta and that unless something unfore fon the project in Congress will be seen occurred the review would be a big assignment in the light of complete and the report releasd all the other demands on the fedwithin at short time.

Budget Bureau officials asked for While the authorization itself in-a revision of the project plans, volves no federal outlay, he exoriginally encompassing a million plained, it would mean the project acres of irrigation, to a 250,000 is cleared for later recept of conacre project on which to seek the struction monies.

The North Dakota Water Users initial authorization, As additional Assn., headquartering in Minot, units are added new authorization

Sen. Milton R. Young that the Berg said once the report is out

pening of Congress. | for representatives of the North Oscar N. Berg, executive sccre Dakota Water Conservation com-

leral budget.

2 Contracts Awarded
By Garrison Engineers
McLean Co. Independent
RIVERDALE — Two con-

tracts for work at Riverdale have been awarded by Garrison District of the Corps of Army Engineers.

The General Electric Co. of Bismarck, won the job of durnishing fauto transformers for the power plant at Garison Dami The deadline for equipment delivery is Inn 1

N. D. Water Unif To Eye Program

The North Dakota Water Commission will meet Friday to consider the program for the Missouri Basin Inter-Agency Committée meeting in Minot next April. 4:2

Among items proposed for the

MBIAC program are:

Talks on proposals to build a big steam generating plant for rural electric cooperatives, a report on management of international waters, a report on findings of the Senate Select Committee on national water resources, the salt water program and other matters.

THE INTER AGENCY committee consists of state and federal agencies concerned with Missouri Basin water development.

The commission Friday also will have before it a number of more immediate problems concerning North Dakota water development.

One is a request by the City of Belfield for construction of a dam on the Green River north and east of that city. A recent survey indicates a sizable dam is feasible in the location.

The commission also will study requests from West Fargo for flood control improvements and the commission will consider asking the Corps of Engineers to install out-

TWO'BID'OPENINGS

Rescheduling of bid openings on two projects was announced by the Corps of Eingineers today.

They include the Highway 851 raising and resurfacing contract. and stage 3, schedule B, of the Buford-Trenton bank stabilization project.

trict, which would set up machinery for cooperating with the Corps of Engineers.

The commission agreed to participate in construction of Balta dam in Pierce county, with the county and State Game and Fish department also to bear part of the cost. The dam will create a lake of about 90 acres for municipal water supplies and recreation.

er water rates will be effective Jan. 1, 1960. Under the new rates, minimum cost for residences will be \$2 and for commercial firms \$2.50. In addition, the first 1,000 gallons of water used by residences will be 30 cents and subsequent consumption will be on a scaled down basis, reaching a low of 21 cents per thousand gallons. Commercial rates will be slightly higher.

There will no longer be any free water offered in the city. City departments and the Park district will be required to pay for any water used, 'the City Commission decided.

calls for any additional 19,000 tons of stone to be quarried for placement on the McKenzie side of the river. The work involves repair of an existing (tockulevy in the Lewis and Clark Trigation district.

Elimination of one rock dock on the Williams county side will reduce the amount of rock originally called for from 61,620 tons to 56,000 tons, spokesmen said.

Bids on the Buford-Trenton project will be opened. Nov. 17 and on Highway 85; on. Nov. 24. Both openings will be in the Board Room of the new Armory at 2 p.m.

ing of the Riverdale water treatment plant mixing chamber went to the Patten Improvement Co., of Albert Lea, Minn. Completion of the latter job is stipulated for Feb. 15, 1960.

Governor Asks For Missouri River Bank Stabilization

BISMARCK (AP) Gov, John Davis has informed the Corps of Engineers that emergency bank stabilization is needed on the Missouri river between Oahe reservoir and Garrison dam.

The governor asked for immediate

diate action, following a resolution passed by the State Water Conservation commission stating that a 1959, study, shows, excessive bank erosion along the Missourii. According to the study, 440 acres are lost each year as a result of clear water released from Garrison

dam. of myson Handall a dall lendin

N. D. Irrigation Job Contract Awarded

RIVERDALE, N.D. (AP)
The Corps of Army Engineers has awarded a contract for bank stabilization work on the Buford-Trenton irrigation project west of Williston to Peter, Kiewit, Sons Co. of Billings, Montage

Co. of Billings Montal Solis Co. of Billings Montal Solis Section 1 and Community of the confirmation of the confirmation of the confirmation of the confirmation of the Missouri River. The work must be completed by June 11

The Kiewit lirm butbid seven other concerns. The government estimate on the job was \$335,320, Work will begin about Dec. 15.15

Viversion 20 I ears Away

Bottineau: Johnson

ESTHOPE—Garrison Diversion be a "next generation" projfor Bottineau County, Bruce ison, Bismarck, district projmanager for the Bureau of amation told a gathering of 325 nessmen and farmers at a ker here Wednesday night.

ecause no irrigation district has formed in Bottineau county, ept for a small sector in the dle Souris district, its land ld not be a part of the first se of the 250,000 acres which, expected, Congress will be

d to authorize. hason said that means it could ly be 20 years before water is he land in areas scheduled for ation in Bottineau county. If when the entire project is auzed, however, Bottineau counould get between a fourth and th of the land to be irrigated. is not a foregone conclusion, ever, that the project will be-

e a reality, Johnson warned. cause of the unusual degree of ptance in the state. Johnson the feeling has been growing ng residents/that it is just a ter of time until the Diversion ect begins to unfold.

This is one of the great danthe project faces," he said. pointed out that there is a growdemand for water all over the souri basin and that the large

itities that the Diversion projwill require will not be forthing without a real selling job.

olmson disclosed to The News lands which will be irrigated ler the first phase of the proj-. They include 40,000 to 50,000 es in the Dickey-Sargent diset; 14,000 acres in the James er district; 45,000 acres in the rwick-MeVille district; 14,000 the Karlsruhe district; and out 70,000 in the Middle Souris in yêner

ne location of another 50,000 es has not yet been detered, he said. An area near New kford is being considered be-

The outlay for the first stage of the project, he said, would represent about a third of the total project cost! based on a million acre irrigation development.

To hold down the cost of the intial phase and to make it a unit! that would be economically feasible on its own, Johnson said the canals and some of the other structures are to be built on a somewhat! reduced scale.

They were designed, however, to be enlarged at a minimum of cost to serve the larger project, he added.

He disclosed that two factors are entering the picture that may slow the construction timetable which calls for a start in fiscal year 1963,

One is the cuts made in the past wo years in investigations funds.

The other is the fact that the nitial construction unit will embrace 250,000 acres instead of 200,-000 as envisioned previously. When authorization for the entire 1,000,-000-acre project was being sought, it was planned to include 200,000 acres in the first stage of construction. Now, to make a feasible unit, the initial irrigation total was enlarged.

That means detailed studies have to be made on another 50,-000 acres, Johnson explained.

While the old plan would have required only one authorization from Congress for the entire million acres, the new one requires a new authorization as each phase

That change was made to satisfy the Bureau of the Budget which has been holding up the feasibility report for more than a year. Latlest indications are that it will now be cleared for action on authorization at the coming session of Congress.

The meeting, held in the Westhope High school gymnasium, was opened by Ed Witteman, chairman of the arrangements committee for Chamber of Commerce, sponsoring

organization. se it can be served economi- He said the annual event was hald in managerition and appropria

N.D. Asks Work to Bismarck Tribune Save Land

By The Associated Press

The North Dakota Water Conservation Commission · Friday adopted a resolution urging the Corps of Engineers to start work immediately on stabilizing the banks of the Missouri River.

The commission said that remaining Missouri River bottom lands are being croded away at the rate of 500 acres a year between Bismarck and Garrison Dam.

OFFICIALS have said this erosion was speeded up by construction of the dam. In its normal water course, the river replaced about as much land as it eroded.

The corps also was asked to consider an emergency project on the Sheyenne River to alleviate possible flooding in the West Fargo area. The corps has authority to construct projects up to \$400,000 without congressional approval.

STATE ENGINEER Mile Hoisveen was asked by the commission to hold hearings in the West Fargo area on the question of establishing a water conservation and flood control district. The West Fargo City Council asked for such a district, which would set up machinery for cooperation with the Corps of Engineers.

The commission agreed to participate in construction of Balta Dam in Pierce County, with the county and State Game and Fish Department also to bear part of the cost. The dam will create a lake of about 90 acres for municipal water supplies and recre-

For Fertilizer Plant

ern half of the state.

Priorities Advocated On Water

DES MOINES, Iowa (A) - Congress should establish clear-cut priorities for the use of water in the Missouri Basin, the Senate Select Committee on Water Resources was told Thursday.

Ken Holum, Aberdeen, S. D., exccutive director of the Midwest Electric Consumers Assn., presented a prepared statement. He also said slack water navigation should be explored and developed.

Holum proposed the following priorities in order: (1) domestic and municipal consumption and pollution control: (2) irrigation, including ground water, recharge and industrial consumption; (3) hydroelectric power; (4) fish, wildlife and recreation, and (5) navigation.

"WE MUST NOT continue a program that syphons 11 million acre feet of water out of the arid and semi-arid Missouri Basin and speed its flow to the sea," he said.

"Slack water navigation, behind a series of low head dams, will be better navigation both because it: will be more dependable and because boats and barges will not have to contend with the current in a swiftly flowing stream."

The slack water system could develop more than two million kilowatts of electricity, his statement

Officials of North Dakota Miro In addition, the announcement gen, Inc., today substantiated what says that negotiations for the lightor months had been about myell filled insigned a continuous that the state of the firm says that the research on the feasibility out as the late for the middle of using lighter as a raw material fertilizer plant of the company to commit fertilizer.

In an announcement issued form About two million tons of lighter by the firm say resident George with two million tons of lighter by the firm say resident George with the continuous tons of lighter when the continuous of the firm in October, 1958, eers, it is stated that a survey indicated it, would use this coal is under way to find a plant site and probably build its plant at other than Riverdale in the south Riverdale on property leased from other than Riverdale in the south Hiverdale on property leased from the government. Says the new announcement: 4:

"When it became clear from the site survey that some delays could be avoided by using a site other than Riverdale for the initial plant; we so advised the government.

"However, we have assured the government of our continuing interest in finding economically; feasible uses for lignite; and our proposal should permit continuing research to develop such uses for this raw inaterial abundant within

the state."
Officials of the firm refused to add much to the brief announcement. One official said, however: that the company is closer to actual construction of a plant than ever before and that about a dozen sites are being considered

for its location.

A persisting rumor is that Wahpeton and the Bismarck-Mandan areas are getting prime consider-

There has been speculation that the firm might decide natural gas a more feasible raw material for nitrogen fertilizer, than lignite, but the company wouldn't com-ment on this possibility.

Riverdale is a town built by the government to house Corps of Engineers, officials, and, other, persons connected with the construction and operation of Garrison dam across the Missouri river.

Further Details Told on Garrison Office Changes

OMAHA IM Eurther defails

ration unless an irrigation dis- year. is organized and no district kford area.

rict within feasible limits for ice by the initial canal structhat district could get in ahead he New Rockford area.

e Westhope area would be dift to serve in the initial phase he project. Johnson said, bese capturing of return flows to them from flowing into Cananvolves providing some major ctures not provided for in the estimates of the first phase he project.

olinson told The News the t phase would involve an outof \$150 million in new money h an overall total cost of \$208 lion. The latter figure repreis the Diversion project's re of the cost of building Garon dam and the Garrison pownetwork. Only part of the cost ild be charged to irrigation. ever, as other benefits-some reimbursible—also carry, a re of the load.

He introduced Mayor James yet been formed in the Newl Munn who delivered the welcoming address and commended the farmould another area organize a 'ers and oilmen for cooperation in church and civic activities resulting in a better community.

Jay Reed, chairman of the Bottineau county Agricultural Stabilization and Conservation committee, introduced members of his committee and Clarence Sanderson, now a member of the state ASC committee.

In a brief address Sanderson told the group that he expects big changes to be made in the ASC program in 1961.

Others who spoke briefly were Banks H. Sieber, county extension agent, and Albert Baumann, Jr., program chairman, Baumann presented the Westhope High school band which had provided dinner music.

and Fish Department and the Bismarck Park Board will join in the Rice Lake restoration project in Burleigh County.

Also approved was the request of Gov. John E. Davis that the Corps of Engineers maintain its Riverdale station as a district office, rather than reduce it to an area office. The corps has said the change will be made as an economy move, with some Riverdale functions moving to Omaha.

The commission approved requests for installation of drop structures in Drain 22 in Cass County and Drain 64 in Richland County, agreed to continue survey work in the Lake Metigoshe area, and approved several water right applications.

Madison, S. D., told the committee Thursday that electric power never has been allocated water from the main stem of the Missouri River.

He said "navigation takes the lion's share of the water, yet power pays for the reimbursable parts of the program, and navigation pays nothing."

JONES SAID that if power "is to receive no allotment of water, they should have storage in the reservoirs to have a maximum head for winter generation,

"This may mean the curtailing of navigation for a few years." he added, "but it certainly would help the government in recovering the cost of these federal works."

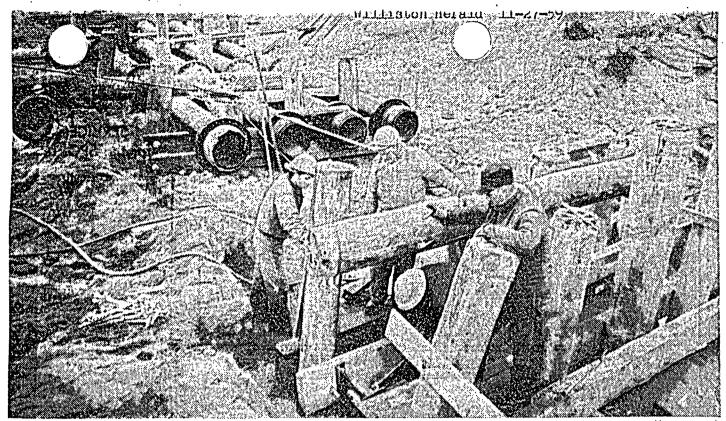
Jones said power is going to pay for about 85 per cent of the costs of developing irrigation along the Missouri River, He said the water requirements set aside for irrigation should be given to power in the winter.

neers at Riverdale; N. D., an area! office under the general supervision. of the Omaha district office were announced Tuesday.

Maj. Gen. Keith R. Barney Missouri River division engineer, said the Garrison office will not be closed but will continue to operate? and maintain the Garrison Dam. powerhouse and reservoir and will continue to be an agency to which state and local interests in North Dakota will have access.

He said, however, that the Garrison office was established in the late 1940s primarily for the purpose of design and construction supervision of the Garrison Dam: project. This construction is now essentially complete save for the last two generators on which work. is well advanced, and it now is: necessary to review the organization in the light of the reduced: work load.

Gen. Barney said the adjustment: which will be completed about; April 1, 1960, will put some of the services now performed by the Garrison office in the hands of the Omaha district office, "permitting over all economies in the use of corps funds and personnel;"



FIFTEEN FEET UNDER WATER — Workmen here are shown in process of laying sections of the 20-inch cast iron pipe which will carry the city's water supply by gravity flow from the Missouri river at the Lewis and Clark bridge, first to the intake structure, through'

a treatment plant, and thence through a huge concrete: transmission to storage reservoirs in the city. The men are working at a level 15 feet below the average river level.



Riverdale: Free Film Recreation

RIVERDALE (AP)-A color motion picture describing recreation activity on Missouri river reservoirs built by the Corps of Engi-

voirs built by the Corps of Engineers has been added to the Riverdale Corps library for free showing, by schools, clubs, public bodies and felevision stations.

Considerable footage in the 16mm film, "Reservoirs of Recreation," is devoted to Garrison and Fort Peck scenes, Army engineers said, Running time is about 18 minutes, Other projects shown are Oahe, Fort Randall and Gavins Point in South Dakota, and those on Mis-South Dakota, and those on Missouri river tributaries in Nebraska and Kanese



-Williston Herald Photos

ELEVEN CARLOADS OF PIPE - Through these huge cast iron sections of river. crossing pipe will come the city's water supply when its three million dollar supply system is finally completed. The sections, 15.8 feet in length and 20-inch diameter. pipe weight 250 pounds each per foot or 4,000 pounds to a section. The four supply lines are bolted together with "ball and socket" joints which permit flexibility not found in supply lines usually laid within the city. After the joining the sections cannot be taken apart. (Story on Page 1))

Miles Alonzo Has New Operator

RIVERDALE — A new concessionaire—Mrs. Emma Murray—has taken over management of the Miles Alonzo hotel in Riverdale.

She succeeds Mrs. Gladys Wood-ruff who has moved from the city.

Mrs. Murray announced that the Mrs. Murray announced that the dining room and coffee shop maintained in the hotel would be open henceforth seven days a week, with an evening closing hour of 9 p.m. Mrs. Murray is a local resident. The hotel and dining room are under the supervision of the Post

Restaurant council.

Army Operates Fort Peck Navy

Fleet Plies Lake" Far From Coasts

FORT PECK - The scene is similar to dozens of others at seaports; on; both; coasts. A massive derrick boat rocks ponderously at the docks, tugging at heavy cables.

A work boat is anchored alongside, packing a "Sea Mule" in dry dock on its deck. A seagoing tug chugs past, headed for open water.

Contrary to appearance, this small fleet is thousands of miles from coastal waters. The field of operation is Fort Peck Lake, one of the largest inland lakes in the eountry.

Officers in the "navy" wear bars instead of stripes, since the fleet is under the command of the U.S. Army Corps of Engin-

Sailing inland waters is not the soft job it might appear. The landlocked sailors work the combination of boats in slack water, without the help of strong currents normally associated with boat handling.

Versätile Unit

Probably the most versatile unit in the flect is the 40-foot seagoing tug, "Pepper." The boat's main purpose is

towing a heavy derrick barge to areas in 189-mile long Fort Peck reservoir for work on various stages of Fort Peck dam and

power equipment.

But∄standby duty for search and rescue or moving a diving barge is also part of a day's work. The chunky sea roustabout served as a harbor tug in the New Orleans area before transfer to Fort Peck. Powered by a German-built five-cylinder, twocycle diesel engine, the tug can



FLEET FLAGSHIP-Most versatile unit of the Fort Peck fleet is the 40-foot sea-going tug, "Pepper." The squat craft is used for a multitude of purposes, ranging from maneuvering heavy work barges to standby for search and rescue work. Watching the tug dock beside

a diving barge are, left to right, George Haynes, maintenance foreman: Don Beckman, chief of operations, and Capt. George Nittalb J.S.: Corps of Engineer area engineer. (13) to the by Donald Burns with Clarence March working and to soc. as deckhand.



Burgale Walers ON DESIGNATION OF THE PROPERTY On Missouri.

the AP / Ice arise on the AP Source River could reduce flooding of low and west of the Fort Peck Dami the Weather Bulreau warned flood.

A special reduction the area from the Fred I, to his an order to near the Fort Source are first ground? The Westine Edition said rapid flood might not permit further

The U.S. Sir and Wildlife Service Thursday, aid rising water and warmer to peratures threatened a breakup of iver iee and possible ice jams.

Much of the area involved is in the Fort Period is in Robinson and the Fort Period is on Montain Highway 19 between Fergus and

Water Storage Said at High ëvel in State Billings:Gazette

HELENA (AP) Montana ter reservoirs are night and the is more stream flow there's needed for power demands, the T.S. Geo-logical Survey reported Saturday. Ifrigation water reservoirs showed about an average gain for

the past month. Western Montana mountain streams ranged to far above average for November of atrie streams showed some gains from mine than usual rain and snow yet in agency described their flow as about half of average.

Hourafa Incharte

Backing the "Pepper" in many of the inland navy operations is a "Sea Mule," a work unit wellknown to Navy men. Packing two marine engines of 145-horsepower each, the 31-ton craft doubles with the tug in hustling larger barges into place.

Much Diving

Surprisingly, a considerable amount of diving work goes on in various parts of Fort Peck reservoir. When periodic cleaning of tunnels is necessary, the divers, outfitted in deep-sea div-

The operation is compared to guards back in place.



FORT PECK NAVY-This odd assortment going tug, moored at lett; derrick boat used of craft makes up the Fort Peck Army Corps : handle heavy steel beams in construction work; of Engineer fleet operating in the eastern Mon, and diving, barge, right, and work barge and tana reservoir. Included in the group is a constant Santaule," behind the constant branch

ing gear, are lowered into depths closet, equipped with boxing fleet is a diving barge, equipped Although a landwober by trade. ranging from 65 to 145 feet, to attach cables used to remove trash guards over the tunnel inlets.

| Closet, cquipped with boxing fleet is a diving-parge, equipped with decompression chambers with decompression chambers. Belkman, often deals the heavy diving gear for a plange into the fleet is Capt diving gear for a plange into the followed in setting the mammoth fort Peck, but the actual over and as you might expect, one The operation is compared to guards back in place.

seeing comes under the office of a the hobbies of Admiral Belke threading a needle in a dark

A major part of the Fort Peck Don Belkman, chief of operations, many is skin-diving.

RIVERDALE Lt. Col. Walter Wi Hogrefe Garrison District engineer, spent last week in the Montana section of the district on Corps of Engineer business. He flew by chartered plane to inspect construction of the second power-plant at Ft. Peck Dam, then proceeded to Bozeman, Mont., to take part in meeting of the Montana Natural Resources Council. One day was spent inspecting the icejam floods in Townsend and Three Forks, Mont. He was accompanied to, Ft. Peck by H. G. Hutchins, district construction division chief.

Peck Keservoli Makes Gains In Water Stored

Contrary to the usual reduction this season of the year Fort Peck reservoir showed a gain in storage of 132,000 acres feet during November.

This was the report from the Missouri river reservoir control center in Omaha for the month's operations.

Pool elevation on Nov. 30 was 2208; an increase of stor the month. Total storage was 10,-810, 000 acre feet.

Total power generation at Fort Peck during the month was 61,-000,000 kilowatt hours, wiff releases amounting to 461,000 acre feet, all passing through the power turbines.

Discussing operations of the five main stem reservoirs, the report said the arrival of unseasonably cold weather in mid-November caused an early freezup of the Missouri river above Omaha. This reduced flows at Omaha to near seasonal records, and temporarily raised power loads at the main stem powerplants.

To relieve the law flow situation at Omaha caused by icc storage in the river, releases of wa-Her from Gavins Point Dam were incrensed temporarily for a few days from the normal seasonal discharge level of 8,000 cubic feet per second up to as high as 11,000 cubic feet per second. But before the effects of the increased releases and return to enilder weather, the sudden from apand accompany ice blocks in the river caused the discharge at Omaha to drop to 3,800 cubic feet per second. The river stage sagged to, -2.6 feet which was within 0.2 of a foot of the all-

Budget Seen

BILLINGS (AP) - Money to start construction of Yellowtail Dam may be included in the President's New Year budget, Rep. Le-Roy H. Anderson reported Wednes-

"If it is not," he said, "congressional action to include the project will not encounter veto action by the President." Anderson spoke to the Billings Chamber of Commerce committee on national and state affairs.

The proposed structure on the Big Horn River in southeastern Montana would cost 110 million dellars and has been sought by Midland Empire residents for a

granter of a century,

The Democratic lawmaker, in a prepared statement, and planning and acquisition of right of way has progressed to the point where work could be started—if the money is appropriated - about 90 days after the calling of bids.

"Hundreds of men at work in this area would signal the beginning of amow era of expanded prosperity for the Midland Empire and indeed a large part of Montana, Anderson said.

Butte Firm Gets
Madison Project

Flood Suit Taken To Supreme Court

Sent to the Wyoming supreme court today from Sheridan county district court was the appeal of Donald Sump, from dismissal of his suit against the City of Sheri-dan seeking to halt the flood con-

trol project.

In October, District Judge G.

A Layman upheld the city's conitention that it is not spending funds illegally or unlawfully and is spending only those funds properly authorized by the city budget ordinance..

Missöuri River Threat to Lowlands Subsides Billings Gazette ... A LEWISTOWN (AB) The threat of lowland flooding has subsided along a street his Missouri's River

The Fish and Wildlife Service Tuesday said ice Jams had broken up, relieving the flood threat for about 10 miles of lowland between the Fred Robinson Bridge east to the start of Fort Peck Reservoir!

un River Flood Control De Topnen In Stages to Be Topic of Conference Accomplishment soil lower Sun | Swanberg said the group will dis-jot the Walson Coule interceptor

tion and county commissioners next tions.

The meeting will be, in the council committee from Thursday, according to Mayor William H. Swan-berg. The meeting Will include the mayor, city engineer county commissioners and federal engi-

River flood control projects in stages cuss the possibility of revising the into the Sun River, a leyee was Army Engineers with representative of the decontrol plans to permit actives of the Great Falls administra- complishment of the work in sec-

> . He said he was interested particularly in accomplishing work which would provide improvements projected in the Watson Coulee section of the project and the Country Club addition works

The original additoroject of flood control had called for the city expending about \$740,000 for right of the flood control program has reway for dikes and ditches projected married undeveloped.

plishing the various sections. The total project, he said, is too large to handle at one time.

Swanberg said Chester Sullivan, Fifth Ward alderman, has been urging action on flood control for the west side.

The two projects mentioned by Swanberg as of prime consideration are a part of a large-scale plan prepared by the Army Engineers in 1955. The engineers' plan at that time called for a federal government expenditure of \$2,100,000 on construction of various control structures. The City or "sponsoring agency" would flave had to purchase the right of way and move

The total project called for laying an interceptor ditch diverting Watson Confee into the Sun River: upstream from the city limits. Another interceptor ditch would, have carried Hill 57 run-off east along the Milwaukee right, of way and into the Missouri river.

From a point near the discharge

projected along the north side of the Sun River to its junction with the Missouri.

For protection of the Country Club, addition, the flood control program called for raising Highway 91 along the south side of the Sun River A levee then was projected for construction from Highway 91 upstream along the west bank of the Missouri river.

Due to lack of positive action on local spensorship for the project

under the plan. This is not the first time the The mayor said if the government complishment of the more capable of accomplishing the works the city of this year. Col. L. W. Pine, displishing the various scoulant may trick anginable to the control plishing the various scoulant may trick anginable. neers, advised the city it would be possible to divide the project into

The main Sun River levee could be one unit. Another unit would be the construction of the two interceptor ditches? Watson? Coulee and Hill 57. A third would be the iso! lation of the Country Club, area with highway raising and Missouri river levee.

Pine suggested the construction should be completed in complete units, and not parts of the construction.

ency, the transition to winter opferations of the main stem reservoirs had been completed early in November, with Gavins Point releases leveled off to about 3, 000 cubic feet per second by November 10; This rate of discharge was resumed after the mid-month freeze-up.

Total water storage in the five operating, main stem reservoirs stood at 23,394,000 aere feet at the close of November, This represents a gain of 2,574,000 aere-feet for the system over the total storage on the same date last year. Total power generation at the four operating power plants in November 1959 amounted to 228,000,000 kilowatt-hours, as compared to 212,000,000 kilowatt-hours in November 1958.

\$9,700 contract for repair of flood/ control levees along the Madison River at Three Forks, Mont. The award was made after a bid opening at the Corps of Engineers Garrison district office.

The government estimate for the work was \$9,400. There were five other bidders as follows: Long Construction Co., of Billings, \$20,-000; Gardner Construction Co., of Bozeman, \$16,000; J. J. Reese, Three Forks, Montana \$17,500; F. L. Flynn Co., Billings, \$11,250; Cocanougher Construction Co., Twin Bridges, \$17,750.

The damage to the dikes was caused by an ice jam flood in the Madison River after a heavy snowstorm in early November.

More Multi-Purpose Dams Due in Montana

Apilding of multi-purpose dams in Markana and neighboring states over a period of four decades or a little more, find only one major stream in this state that might be said to be under control. The Missonia river with a keries of private and federal dams in under fairly close control. The menace of floods downstream is at a minimum. Dams in Montana, North and South Dakota now are functioning well.

But the Yellowstone is not under control, neither are some western Montana streams. A hearing will be held in Missoula in December to gain more information and to explain intentions to residents affected, on the Knowles or Para dise sites. A dam at Paradise would cost around half a billion dollars and even tually would generate a million kilowatts of prime power. It would be part of the northwest states complex of dams and reservoirs that continue to be built on the Columbia river and tributaries.

The Columbia watershed is far from under control from the standpoint of floods. Only a short time ago an unexpected thaw and heavy rains brought floods to northwest states. More dams such as Knowles or Paradise will be needed to give that vast watershed as much control as the upper Missouri river basin.

Vest riedds for i Maddle Ground Ling Hagle, Cheyenne Wyd 12-18-59 Missouri Basin Water Dispute

in the western states in this inavigation rule by the last of the expenditure of reactive in this inavigation rule by the last of the expenditure of reactive funds.

In the long controvers, honey-Milligan amendment the second ray of form the support the so-called arbits in the Missouri Basis and bill which would provide id states are beginning to receive

certain areas where the states at Hazardisf the bill were passed fact that the West is already Moses said that although the

TCHISON, Kan. (Chick A argued that the ress be limited be made a condition of authoriza-Resman for the Western States in this navigation rule by the 1914 ion of the expenditure of federal

Ray Moses, Alamosa, Colo, at that the withdrawal or reserva- from the so-called humid states."
ney for the Colorado Water tion of public lands should not af- Four governors are attending nservation Board, said the West feet and right to the use of water willing to concede that there accoulant pursuant to state law.

ist forever remain subordinate. and "it our efforts are unremit-But I think that in all the heat ting, we really have limited the it has been generated on the propiets to the ownership of inplect of the conflict between appropriated water rising tipon to and others water rights the federal lands withis sist considerleral: government overlooked able progress.

eting the federal government battle will continue to rage, two things give me hope to believe the middle ground I have recomthe Missouri Basin Inter-agen-mended may result in an uneasy equilibrium."

Moses admitted the power of One is that most multi-state federal government in naviga- projects are eagerly sought by the n matters but he said "our affected states so fliat waiving of animity is a little strained." He crippling state reddifferents may

Four governors are attending the meeting, including George Docking of Kansas.

Minot (N.D.) Daily News Saturday, Dec. 19, 1959

Visits Riverdale



12-18-59 **Garrison Power** Delay Expected

RIVERDALE UN - Mechanical trouble detected in its initial run may delagathe original January power-on-the-line schedule for generating Unit No. 4 at the Garrison Dam hydroglectric plant here, the Army Engineers said.

Necessity of removing several pieces of hear sculpinent to diagnose the trouble and make repairs may littley the central service start a mouth or six weeks said Col. Walter W. Hogrefe, Garrison district engineer.

Unit No. 5, also being installed, is scheduled to go en the line next July.

These two units will complete Garrison's power installation. bringing total capacity of the plant to 400,000 kilowatts, Three 80,000-kilowatt units have been producing power since 1956.

-Editorials

Some Points in Our Favor

made known at this week's meet- within the Corps' scope to spend ing of the Missouri Basin Inter- hundreds of millions to stabilize Agency Committee in Atchison, banks so as to prevent erosion and Kansas, are of interest for the im- increase land values on the lower plications they have in North Da- Missouri, and therefore it must kota. 34 e. 1

One is the rising demand for slack-water navigation on the Missouri, which speakers at the Atchison meeting indicated might some day be extended as far north as Bismarck and beyond.

This may seem like a far-fetched dream today, but as Gov. Herschel Loveless of Iowa said it is impossible to foresee needs 20 and 50 years hence. The tremendous industrial complexes of the Ohio and Mississippi-River valleys are based largely upon water transportation. and eventually national requires ments may force opening of the upper Missouri to barges

Another point was the news that the \$350 million being spent to tame the lower Missouri will "create" 1,800,000 acres of "new". farm land by confining the river to a single chantel?

Apparent of the federal government, and downriver states, are not concerned about this addition to the nation's productive acreage. This being true, they should not express concern over the fact that Garrison Diversion would add to

Several items of information neers spokesman indicated it is concede that expenditures for the same purpose should be proper along the river between Bismarck and Garrison Dam

To date, however the Corps has evinced no enthusiasm about the latter proposal mailtiough the 50 or 60-mile stretch had by the Dam is the only part of the river between Ft. Peole Darn and St. Louis on which no work is planned.

By its own figures, the Corps more or less corroborates State: Water Commission estimates that erosion, is destroying vabout 440 acres of land per year along the

Tiver below Garrison Dam.
The Corps held that disposed lowhead dam above dismarcke Mandan would not be feeling be cause the proposed I authorismes ervoir would fill with sediment within two to five years within the five years with the five years with the five years with the five years with the five year this would come from the come sion, possibly at as high a fate as 800 acres a year certainly not less than 300 acres a wear Since the river's banks average 10 feet in height, to pick up 15,000 acre feet of sediment it would have to cut away 1,500 acres (Qnly a minor

day. He addressed the Riverdale post of the Society of American Military Engineers.

Sweden Defended

RIVERDALE, N.D. (AP) — Sweden's policy pi non-alliance through two world conflicts and the current cold war was defended at a meeting of the Society of American Military En-

ciety of American Military Engineers here Thursday.

Gostaaf Petersens, that nation's consult general in Minneapolis, saids if, Sweden joined NATO or otherwise deviated from its neitral position. Finland would be swallowed by Russia immediately, this bringing hostilities to Sweden's frontier.

Besides that the said. We don't feel our early button to the western allights would be wery great."

Petersens and Swede arrope NATO will succeed but and the sefficiency.

efficiency:

RIVERDALE Two deep-sea divers from the state of Washington-Bill Harris and Bett Carnes-were in Riverdale this week to remove obstructions "that might be impeding the movement of water in power tunnels. No.4 and 5.

These two units are now being installed in the power plant. No. 4

is scheduled to go into service in January and No. 5 in July.

The divers were called when operational deficiencies were reported in tunnel No. 4. Harris lives in

Spokane and Carpes in Newport, Washington, and both are connected with commercial diving con-

It has been necessary to employ divers several times during the past few years on the Garrison dam project.

in production

If it is in the national interest to "create" 1,800,000 acres of "new" farm land in Karisas Missouri, Nebraska and Iowa. It ought to be in the national interest to stabilize farming operations on a smaller acreage already in production in North Dakota. There should be no double standard.

Lastly, an Army Corps of Engi-

er floors-unless the river is about to scoop a tremendously desplake:

out of its channel. There will be only 50,000 55,000 acres of river bottom left in North Dakota after Garrison and Oahe Dams fill their reservoirs. It would seem that the Corps of Engineers should be as interested in protecting and up-valuing this land as it is in doing the same for down-river land not one whit more fertile.

Completed Completed Completed

initial completion of the first major portion of stage one of the city's new altere million dollar wife enjoys tem

was completed late Shudday night withouse pouring of when this littlal stage is comconcrete at the base of pier number 3 sealing in the intake pipe at the base of the pier where the water supply at the Lewis and Clark bridge site.

Construction crew, never stopping for snow or cold weatherthat has dogged the area with its, earliest winter blasts of many a days will in all probability provide the last opportunity visitors. will have to view this initial stage of construction-most of which has gone on 15 or more feet below the actual flow of the mighty "Muddy".

For stage number one of laying the four-line section of intake supply from pier 3 to the intake structure will have then been completed and what has been the working area the past month or more will be covered with tons of clay and top soil, and never again come into view.

The hundreds of sections of pipe (11 freight carloads of it) with one-inch-thick walls have now been laid between plers two and three, and in the next ten days will be extended to the site of the intake structure on the river bank just south of the ter," and said the same went for railroad tracks. . .

Saturday night was to provide As evidence of this sort of presan 11-feet shelf for the housing ervation, one could see some of of the pipe alongside the big the original wood form work bridge pier. Main inlet for the along side the huge bridge pier four-section supply line will be which has been there since conat the top of this big shelf. struction of the bridge some 25 Then, as an extra means of pre- years ago, and which shows no caution, a second inlet is con- decomposition. structed ten feet higher up along the pier. This, as explained by consulting engineer Willard Webster, would only be nead chould an unavnoated

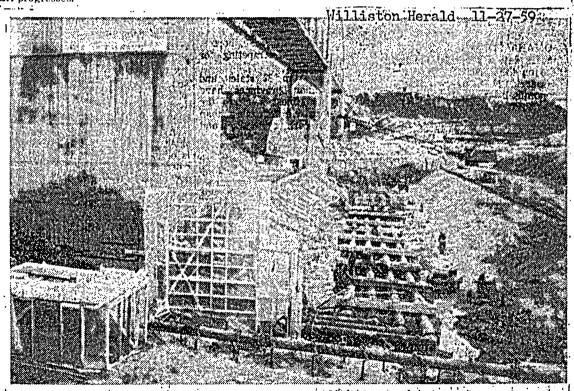
Another interesting "protectwill be taken from the river ive" measure will be when similar injets are constructed on pler number two. In other words, should the main channel of the Work has moved steadily river ever shift farther to the ahead by the Peter Klewit Sons north, then the supply could be taken through the pier two structure, which will be a duplicate of that at pier No. 3.

A rising river flower caused year. And the hextywerk or ten some concern Tuesday and Wednesday, undoubtedly resulting from heavy snows and rains on the upper Yellowstone. The main flow had gone up, about three feet in 24 hours by Wednesday evening, and workmen had been busy with their hig dirt moving equipment adding some four or five feet to the coffer dam surrounding the work area. The danger threat apparently had passed now however, as the crest today was reported at 39 feet 5 inches, and the Yellowstone was reported dropping. slowly at Sidney.

The big four-line intake structure had been laid at a level of 20-inch cast iron river crossing 1820 feet above sea level, which is 15 feet below the average flow of the river.

Webster, when asked as to possible corrosion or damage to the pipe line, explained cast iron pipe "never corrodes under wapiling timbers and those which The concrete pouring operation provided the base for the line.

pleted, work will then be started on stage two, or the intake structure. This will include a raw water well with a screening process and pump to carry the water to the pre-sediment basin and grit chamber. These will be explained in Nater installments. as the world progresses.

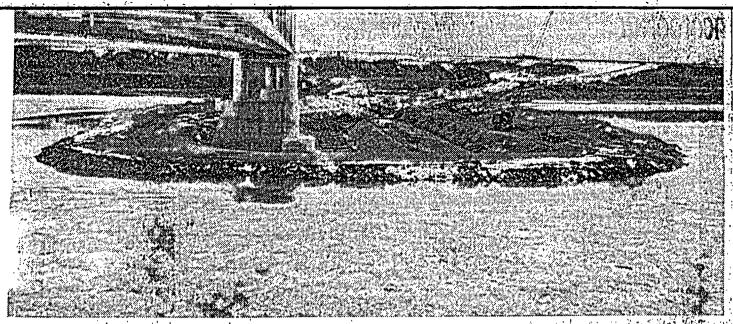


INITIAL WORK COMPLETED — This is a picture story of the four-line intake. supply which will be bringing water from the Missouri river, first to the intake structure, and finally through huge transmission lines to the city. The plastic-enclosed structure at lower left is where concrete was poured during snow and cold Saturday night. Work will move ahead on extending the supply line another ab oric 100 feet to the bank on the south side of the G.N. tracks, carrying the water by gravity flow into the intake structure. (More pictures on page 10)

off regular flow into the lower nlet. "It seems quite improbable," Webster said, "that this higher inlet would ever come into play—but it's just a measare of extra protection."

"Web" also explained how the pipe was embedded in concrete along the pier structure, adding that it was hardly conceivable that damage in any way could come from winter ice flows in the river. This was all the more true, he added, "since the structure is placed along the lee side of the piers, which would further lessen any danger from ice flows.

The process of the pipe line installation was interesting to have traced by the engineer from the initial driving of huge timber piling down to shale or a maximum; of 50 feet to support the big four-line pipe sections. Big cross sections of timber were then fastened to the piling, on which the pipe rested. Then over the top were other timber cross sections to which the pipe was again bolted, and each line inter-connected with separating rection.



SOURCE OF SUPPLY — Herald photographer Doyle Ennis here gives a graphic view of where workmen during the past month have battled the elements to complete installation of the water lines. Circling the working site, 15 feet below the flow of the river, is shown the coffer dam structure where thousands of tons of dirt was moved by the Kiewit heavy equipment and hardy crew of workmen.

Possibility Of Lignite Road Construction To Be Explored

Dakota Economic Development two million ton stockpile of Lig-Commission is going to look into nite dug up when Garrison Dam the possibility of using lignite coal was built. to build roads.

meeting here Friday was a re-the lignite market if sold for fuel. quest that Director Lawrence A. Schneider see what other states ties of lignite in the western part are doing in this field.

The Curtiss-Wright Corp. of New some test roads to see how the lignite. stuff works out in actual use.

In both cases, the states are interested in new markets for their depressed coal areas.

It's not expected there will be any quick action to get a plant built in North Dakota to process lignite for use as a road oil, but the EDC wants to look into the possibility.

State Highway Commissioner A., W. Wentz said he is always interested in new products for road construction and has been waiting for information on the tests by the other states.

Producers of asphalt, the normal component of road mixes, have derided the new product as both more expensive and inferior in quality to their own.

Wentz noted one of the big problems in choosing road material is that it must withstand the wide temperature variations common in North Dakota.

If the coal tar derivative has properties which would make it stand up well under femperature

BISMARCK (AP) - The North|still interested in disposing of the

The corps has been unsuccessful Among routine business trans in finding a buyer for its stockpile. acted by the EDC at its regular which is so huge it would disrupt

North Dakota has large quantiof the state.

However, Wentz said his infor-Jersey has developed a coal tar mation is that the small amount material for use in road surfacing. of coal needed for the new road The firm has contracts with Ken: material probably wouldn't create tucky and Pennsylvania to build a very large additional market for

MBIAC Hears Report on Status of Project To Lower Missouri

ATCHISON, Kan in The Mis ed a resolution requesting comple-lower basin program could be souri section of a 350 million dollar tion by July of 1966, more than two completed with an outlay of 12 to

souri section of a 350 million dollar tion by July of 1966, more than two completed with an outlay of 12 to federal project designed to tame years ahead of schedule.

13 million dollars in each of the the lower Missouri River is 93 per "I believe we should be remind-next five years. cent complete, a U.S. district en-ed that havingation is only one of gineer reported Thursday.

In a speech to a meeting of the vided by the Missouri Basin pro-competition for money for other Missouri Basin Interagency Coming aming the others being flood composite."

Missouri Basin Interagency Coming the others being flood composites."

THE RIVER STATES group—governors of the 10 states and will be completed in three or four Three additions to providing a chain will be completed in three or four Three additions to providing a chain reliminary to Thursday's sessions of the interagency committee.

At this time it is 93 per cent he said, the lower river program of the interagency committee.

Gov. Herschel C. Loveless of the mouth to Kan-will:

sas City to Omaha and 57 per cent from Control of the Sas City to Omaha to Sloux City," said by contracting the river into a kota. Dr. Garland Hershey, director of the Court complete from the mouth to Kan- will:

sas City. 2. 12. (2) 1. 2. Increase land values along the banks of the river and for an av-— which involves navigation, flood 3: Permit construction of flood North Dakota delegate, told the control and the prevention of ero-control leves with the assurance committee he opposed the addition of any the projects in Missouri issal, year which starts July 14 river.

mittee, made up of 10 states in B. Hipple, publisher of the Capital the river basin, Wednesday adopt- Journal at Pierre, S. D., said the rision diversion unit in North Da-

river states committee to succeed Gov. John E. Davis of North Dawill serve as secretary to the com-

mittee. A. R. Weinhandl of Minot, a of any lew projects in Missouri Basin development before completion of those scheduled in the flood control act of 1944. The Garthe 1944 act.

FRED FREDRICKSON, Washington representative of the North Dakota Water Commission, told the Atchison meeting "high government officials" had expressed favor of several new Missouri project stárts. He did not say what they were.

Milo W. Hoisveen, North Dakota state engineer and retiring secretary of the river states committee. told the meeting development of reclamation projects in the upper Missouri River states should keep pace with development of other phases, of the basin.

Davis remained in Atchison Thursday to attend the Missouri Basin Inter: - : Agency .: Committee meeting. He planned to return to Bismarck Thursday night.

Commission Plans Steps To Mark Reservoir Historic Sites

Coming before the council, of in Riverdale.

which Dr. I. G. Bue, state game and fish commissioner is chairNational Park service representaby Garrison reservoir.

cicty secretary from Bismarck, property that will lower values of said it would cost several hundred adjacent holdings and result in unthousand dollars to restore the Fort Stevenson as it was in the late sixties and seventies, which several hundred sixties and seventies, which several hundred the State Health department of the several sever shoreside site, something should voir for commercial and residential

RIVERDALE - Initial steps to likely would be set un to coordiprovide recognition of historical nate the zoning problem; among sites in the Garrison reservoir area the various counties, federal and and the setting up of zoning regu-state agencies involved as well as lations to prevent unsightly build- with the three Indian tribes of the ings and grounds were taken here Fort Berthold reservation, Dr. Bue at the third meeting of the Garri-said. The March 15 meeting will; son Reservoir Interagency council, be held at the Recreation building

man, were the questions of restora-tion or providing markers for old inasmuch as his service has had Fort Stevenson and Fort Berthold, experience with the zoning probthe sites of both now inundated lem at other reservoirs. Zoning, he said, is essential to prevent Russell Reid, state historical so-harmful uses of reservoir shore

would appear to make that course ment, pointed out that North Daimpossible. However, he said, if kota has the required basic legisthe fort isn't restored on a nearby lation to permit zoning the reser-

expensive, Wentz said. The Corps of Engineers office at Riverdale has suggested also that the Economic Development Commission look into the possible new use for lignite. The corps is

Fort Berthold. Further action on this item was use problems with the Indians on postponed until officials of the city of Garrison can be present at a council meeting. The matter of a of the council, outlined the \$400,-

possible new name for the reser-1000 worth of recreation developvoir also was discussed and action ment work done by the Corps of delayed. Chairman Bue said that Engineers during the past 10 years, apparently the proposals to name life cited the eight areas initially the reservoir Sakakawea and Thompson had both been dropped.

At the council's next meeting on nic tables and grates, wells and grates, wells and grates. March 15, a special committee roads, and said that three additional sites, Mahto Bay, Little Missouri and a tourist outlay west of Four Bears Bridge, had been added in the past year. Additional sites, he said, would be improved. sites, he said, would be improved as public demand dictates. Kalim served the Collect at his last meeting as secretary as he is being transferred this winter to the Fort Worth district office of the Corps of Engineers. He will be succeeded as secretary by Shirley. Von Eschen, Garrison district creservoir manager.

A feature position for the color motion of the companies of the color motion picture. "Reservoirs of Recreation."

Lack of Cooperation Reason Ten Mile Project Dropped A flood control project on Ten Falls, has been completed, the sibilities at Out Bank Creek at Mile Creek at Helena was aban corns reported. Browning is well advanced, this

Mile Creek at Helena was aban-corps reported. doned this fall because "local interests concluded they would be unable to provide lie required cooperation," is was reported today.

The statement was made in an 'Army Corps of Engineers' report released in Gov. J. Hugo Aronson's office today. It said a study of flood control possibilities, for Ten Mile were completed in September, but the plans for a project dropped because wife lack of co-operation.

A similar proposed project for Townsend on the Missouri-River was also abandoned for the same reason, the report said.

The corps reported to Gov. Aronson its largest project in Montana this year was construc-tion of a second power plant which is 50 per cent complete. It will provide 40,000 additional kilowatt units, the report said.

An, unfavorable report was registered. on investigation of flood control possibilities on the Sun River, exclusive of Great

BOZEMANI (AP) 1- The Madistin Canyon slide area still is closed to the public.

Browning is well advanced, its 700 A survey of flood control postported.

Yellowtail Dama

WASHINGTON (AP)—Sen. Mike Mansfield D-Mont) was optimistic today over the possibility of getting construction funds for a Montana dam in 1960, a quarte compry after it was authorized.

Con authorized onstruction of hydrid Dan'd in 1934. The long any in getting work under way been caused, in part, by a dispite—"now settled — with Crow Indiana over how much they should be paid for their reservation land to be flooded.

Mansfield told a newsman he is optimistic, following three conferences with Secretary of the Interior Fred A. Seaton, that an appropriation may be made by Con-

surance that Yellowtail would be included in the next budget request by the dresident," Mansfield said, a lassured by Secretary Seaton that as far as he was concerned personally he would give the Yellowtail proposal every possible consideration.

He said the four-man Montana

gress in 1960. "While I received no definite as-

delegation in Congress would work for an appropriation for Yellow-tail Ham. Scaton told Mansuld last Oc-tober that cooperation Crow In-dians would be become to com-

Unusual Situation Reported Great Falls (Month Tribune 125-59 At Fort Peck Reservoir

brought about an unusual situation co. and while it stood fast in last in the Fort Peck reservoir.

This was the word from Rain and while it stood fast in last singust's earth movements, its reservoir is being drawn down in prepulation. For early spring dam repairs, carly spring dam repairs.

Canyon Ferry, Bureau of Reclamation for early spring dam repairs.

Canyon Ferry, Bureau of Reclamation day near Helena, was full the said wave hit in Novembers, Because of ice jamming near Townsend it was necessary to re-

The reservoir gained more than 130,000 acre feet of storage during lease, more mater from Canyon November, and was tentilining to rise this month, according to figures supplied by the Fort Peck area man said.

Much of the huge drainage area of the Wisslut above Fort Peck reserver that they normal precipitation from August to November, the Helena official said.

All the low level snow and much of the mountal snew that came in early storms had since melted and added volume to the Missouri's

Normally, Fort Peck reservoir gets its big storage boosts in March and June "rises" of the Missouri.

Another factor has been a drawdown in Hebgen Dam, above

GLASGOW — Above-normal au Chate Lake or spe Madison riv-tumn precipitation and releases and mission buttery. The dam from several upstream dams have is operated by the Montana Power brought about an unusual situation co. and while it stood fast in last

The reservoir gained more than Townsend, it was necessary to re-

Supervisor George H. Duvendack of the Gallatin National Forest.

He said the order was hecessary

He said the order was necessary because of danger of rock slides and the fact that the road is not suitable for public travel.

The ban on fravel into the carthquake-caused slide, area will; rengan, is reflect whill improve dents are made of the road and proper sates and in the said and proper sates and in the road and proper sates and a light calculations are followed as the road and rock area.

this plan is consed

Yellowtail Dam werld impound water for irrigation and electric power generation. Its cost has been estimated at more than 100 million dollars.

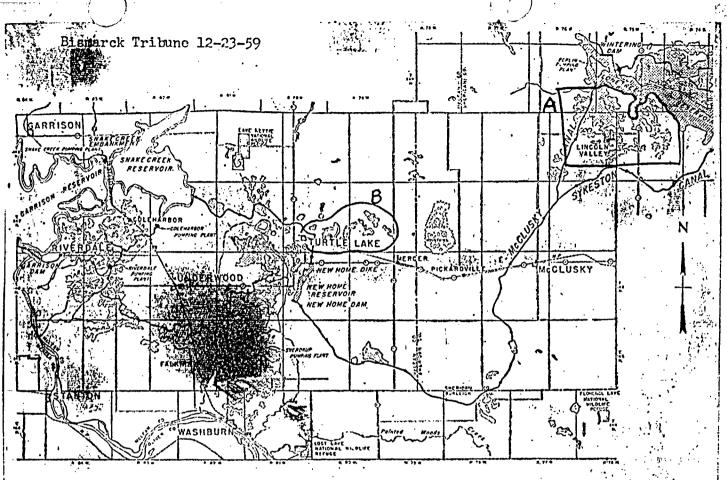
rt Peck-Bismarck

Vire Contract OKd

By the same ted Press

A contact for durnishing and string the for a Reclamation Bureau for a Reclamation between Poil Feck Mont, and Bishfarck has been fauthorized, Rep. Don L. Shortt (R'ND) reported, Monday from Washington.

Short said Hoosier Engineering Co. with headquarters at Columbus, Ohio, will fet the job on a bid of, \$3,080 by Hallet Construction, Co., Groeby Minn., bid \$3,100 by Minn., bid \$3,1



LINCOLN VALLEY IRRIGATION-The area marked "A" within the heavy black line (top right) includes the 8,000 to 10,000 acres of the planned Lincoln Valley irrigation district. Map also shows route

of the McClusky Canal, from which water may be taken to flush out and build up lakes for recreation and wildlife between Turtle Lake and Mercer, marked "B".

Lincoln Valley Irrigation Area Nears District Election Stage

By JACK E. CASE Tribune Staff Writer

seventh irrigation district appears most a certainty.

opment Committee has apparently on the proposed district. If the water source, the Garrison Dam developed interest to the point reaction there warrants, he will reservoir. Organization of North Dakota's where formal organization is al-then set an election date at which. The lands lie on the shores of

the farmers will formally vote on the proposed Lonetree, reservoir. virtually assured for the McClusky Known as the Lincoln Valley dis-the formation of the district and the key structure in plans for diarea in the early months of 1960. It is in conservation planning, the also choose a board of directors, verting water from the Garrison Spokesmen with the North Daarea lies about five miles north. In the past, districts of that applications of the conservation of the conservation conservation of the conservation planning. On Future N.D. Bismarck Tribune Water Needs

ments in the next 20 years were outlined to the U.S. Senate Select Committee on National Water Resources at the life hearing of the committee at Bismarck on Oct. 7. from all sections of the state and representing 'many agencies' and oragnizations outlined the available water resources to the committee and pointed out the needs of various areas and possible methods to fill these needs. The Senate Committee, headed by Sen. Robert Kerr of Oklahoma, was established to study the needs for water resources development in the country between the present and 1980. Gov. John E. Davis keynoted the hearing stating "The development of our water resources is the key to the growth and prosperity, of

North Dakofa.' New and expanded opportunities: that will result through a sound water resources program, will:encourage our youth, our most precious resource, to stay

our most precious resource, to stay in the state, reversing a trend of recent years."

Other witnesses emphasized, the importance of the early development of the Garrison Diversion Unit as a means of solving the urgent water problems in central, and eastern North Dakota. Nuand eastern North-Dakota, Nulmerous other projects including
the Bowman-Haley and Pembilier,
and many other dames proposed
irrigation projects possible, mufilcipal water supply sources, and
recreation developments were out
lined for the committee of the

three major water resource possibilities in North Dakota, the Gar-rison Diversion Unit, ground water laquifers and the storage of run off water in smaller tributary streams can provide for a population increase in excess of 400,000 people in North Dakota by 1980, Milo W. Hoisveen, secretary and chief engineer for the State Water Commission, told the committee. The development of these potential water resources projects in weeks by the area's Farm Devel is land operated by some 100 farmers.

Pelitions requesting formation of 1 of next year. the district have been circulated in the area for some time and are expected to be filed with the state expected to be filed with the state engineer by Jan. 15.

of next year.

At present the state has six irridiate points to the south and east. Sation districts formally organized formation of the district will promincluding some 308,000 irrigible vide the landowners with authority

It is expected that the district ceive its water from the main

will be formally organized by April McClusky canal which will be de-t of next year.

to negotiate with the federal gov-

AFTER RECEIPT of the petitions and the petitions and the Garrison Control of the number of Signatures, the state engities, when formed, will be the will be required when irrigation neer will then schedule a hearing closest one thus far to the primary actually commences.

of \$900 million.

The recently organized North Dakota Water Users Assn. held its annual convention in Bismarck in. conjunction with the Senate hearing. Senator Kerr was the principal speaker at the banquet of that association on Oct. 6. The Water Users Assn. was established in February 1959 by an amalgama tion of the North Dakota Reclama tion Assn. and the Missouri Souris' tion Assn. and the Missouri Souris Projects Assn. L. C. Mueller of Oakes is president of the association and Oscar N. Berg of Minot is secretary of This association provides every futtent in the state the opportunity to inject and participate in the present and fut the water projects which are being proposed for North Dakota.



BLACKTAIL DAM Earthmoving equipment placing the 300,000 cubic yard embankment at Blacktail Dam 25 miles northwest of Williston. This dam was one of six projects constructed by the State Water Commission in 1959.

Blacktail Dam Biggest Of Six Projects in 1959

Included in the State Water mestic purposes.

approximately \$80,000. The dam is trict. a rolled earth filled structure with The earth embankment, which and maintenance costs. approximately 125 acres.

a glory hole type spillway and will was constructed at the outlet of ALSO INCLUDED in the Comstore approximately 1,760 acre-feet South Lake, raises the level of mission's construction program in of water and will cover an area of that law so as to join it with 1959 was the installation of a drop Schmisek Lake creating an im-structure in Richland County Drain ABOUT 235,000 cubic yards of poundment of approximately 196 No. 2. Because of an excessive selected tearth fill material were acres in size with a maximum slope in the lower reaches of this, placed in the 53 foot high, 2,000 depth of 25 feet. Prior to the in-drain erosion was occurring up the foot long embankment. A 6,000 stallation of the dam South Lake drain from the point where it discubic yard blanket of rock riprap covered an area of 17.8 acres and charged into the Wildrise River. will cover the upstream face of the Schmisek Lake an area of 22.4 This erosion was destroying many embankment. The reservoir be-acres. The embankment contains acres of valuable farm land and bind the dam will average 14 feet approximately 33,000 cubic yards was also endangering a bridge on in depth with a maximum depth of of earth fill and was completed at Highway No. 81, which is now 33 feet which will assure water in a cost of \$20,800 which was shared being used as a farm to market.

Included in the State Water mestic purposes.

Conservation Commission's construction program during 1959 were six projects involving new construction. These projects include new dams that will be utilized for recreation, fish and wild-life and municipal water supplies as well as lake restoration facilities.

Largest and most impressive of the projects is the Blacktail Dam in Williams County, located on Blacktail Creek, about 25 miles northwest of Williston, which was completed late in 1959 at a cost of approximately \$80,000. The dam is a rolled earth filled structure with inumerous individuals interested in

33 feet which will assure water in a cost of \$20,800 which was shared being used as a farm to market sufficient depth to maintain fish by the cooperating parties.

If the spillway structure consists of an 18 inch steel pipe through the embankment. An emergency grass spillway has also been inscluded as part of the project. The water through an aquifer that of to feet this structure production and the structure in constructing a reinflowing an aquifer that of to feet. This structure production and the stru

Ketailoring Affected 39
Diversion Work By Bureau

A "retailoring" job was done on the Garrison Diversion project during 1959, looking toward a favor- | 250,000 acres, 116,000 acres able report on feasibility from the which will be in the Souris sec. Bureau of the Budget and eventual authorization; of the first phase of 250,000 acres of irrigation by the Congress.

The Minot office of the Bureau of Reclamation dovetailed its activities into the revision of plans and also made some progress on long range planning of the overall project manager, and tothers met million acre project.

the remainder of the Warwick-Me- not on July 24. 12 is a mail : Ville area, or the portion known as the Tokio area, was classified in detail and the completed work was reviewed by representatives of the chief engineer's office in Denver and the regional director's, procedures, office in Billings, Mont. The appendix report is being prepared in the Bismarck office.

The land classification appendix report for the LaMoure area was completed and forwarded for review and approval.

During 1959, detailed topographic surveys, on a scale of one inch to 400 feet and a one foot contour interval, were completed on the Karlsruhe area. Approximately 59,000 acres were surveyed. Detailed land classification on the above area was also completed and drafting of the completed maps;

Iplanimetering and tabulating of arable acreages, and preparation of general maps of the area is under way and will be completed! early in 1960.

Detail topographic, and land classification surveys were started in the Middle Souris area. This work will be continued in

Extensive studies were made of the James River valley between Lonetree reservoir and Oakes and changes that would be effected by increasing the flow in the river to serve lands in the southern part of the state (Oakes and LaMoure areas). A report on new structures needed and modifications of old ones was prepared 'They included

latest proposed development flon. This work is being done! with an eve lo future enlarge ment and serving of the remainder of The project land.

अस्ताती न्यान व्यक्त Commissioner of Reclamation, Floyd E. Dominy, Regional Director F. M. Clinton Bruce Johnson, with the Garrison Divetsion Con-Early in the field season of 1959 servancy District directoriod Mi-

> A Turkish engineer trainee spent three weeks in August with field crews' working in the Karlsruhe area, to learn about our land classification and topographic mapping

Robert B. Horton, head of office engineering for the Minot office, transferred to the Atomic Energy Commission at Idaho Falls, Idaho, in May, F. Elmer Foutz, head of land classification in Minot, recently received notice of his selection for promotion and transfer to Bismarck and will report in Bismarck Jan. 11. His family will not move to Bismarck Wittil suitable housing arrangements can be made and property owifed in Minot disposed. In Bismarck, Foultz will serve as head of the Projects Office Land Resources branch.

nicipal water supply problem for ment and the Williams County many years. Investigations by the Park Board. Park Board.

It will provide one of the finest sion indicated that a feasible solurecreational areas in northwestern tion to this problem would be to North Dakota. The Williams County Park Board contemplates an extensive program to develop the city obtained its municipal water recreational area around the ressupply.

ervoir. The State Game and Fish A clay core was placed across

ervoir. The State Game and Fish A clay core was placed across Department has purchased a continuous description of this aquifer thereby restricting the assure fishermen of access to the lake and are planning to stock the purposes. This dam will, in effect, reservoir with various species of form all underground lake from the course obtain its A clay core was placed across

game fish which the city carry obtain its which the city carry obtain its HUNTER DAM located on the water stoply. The cost of the outskirts of the village of Hunter underground dam, was \$6,950 in Cast County, will be utilized for which was shared equally by the much meeded municipal water State Water Conservation Com-Plage. 'on'and iel Suit

opq uac -DREW PEARSON . bet cent to them. of \$12.00 % 1 the set-tough creek-down.

TA 1959 not 10 10 fent at the Chine's neighbors stopped the will chemine the contract of the will set tought the set tought the set of the set of

ber cent to tinance 49.

verts, railroad bridges. Fish and Wildlife refuge installations and so forth. Costs of channel enlargement and improvements were compared against costs of a separate canal. Costs of rights of way for land adversely affected or flooded by increased water in the river. bank erosion and protective works required to protect certain areas and many other problems are considered in these studies and estimales. Meetings were held with boards of county commissioners. representatives of the Fish and Wildlife service, and others, to acquaint them with the fure a u's plans, and to solicit their recommendations.

Cost estimates for the principal supply works were reviewed and changes made as required for the new concept of serving a 250,000 acre project rather than the million acres originally contemplated.

Studies are presently being made of the realignment of the Velvar canal to determine the most economical and most feasible route to serve the reduced

Major Developments IVIETA Diversion Progress in 1959

Several and ficant developents relating to the Garrison Discrete deducing reson. Project red during the Garrison Diversion Unit port, which outlined the plan to obtain adequate appropriations. ntained the information necesry to establish the feasibility of e project, was in the hands of e Bureau of the Budget in Wash-gton, 1910, where it was being viewed was being

aving the way for Congressional provided in from 10 to large and fire project.

The Garrison Diversion Project the initial project will be completed in from 10 to large are in from 10 to large are in from 10 to large are in mation of the project project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in mation of the project in from 10 to large are in mation of the project is approved on the large are in from 10 to large are in mation of the project is approved on the said of 250,000 acres the initial project will be completed in from 10 to large are in mation of the project is approved on the said of 250,000 acres the initial project will be completed in from 10 to large are in mation of the project is approved on the said of 250,000 acres the initial project will be completed in from 10 to large are in mation of the project is approved on the said of 250,000 acres the initial project will be completed in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in from 10 to large are in mation of the project in mation of the pr he point of diversion of water

gress of the revised project plan. eaches Congress it is expected that hearings will be held and Congress can be the proposal.

Becaus on to the Garrison les voject from states in the layer Missouri River Basin and cother filleged reasons, the Bureau of the Budget resisted giving approval of the origsisted giving approval of the original one, million vacre project at this time chimerous conferences among officials from North Dakota, the Department of the Individual of the Bureau of the Budget resulted in a general conductory and the Bureau of the dorsepartment of a general conductory and the complete its necliminary studies dorsement of a smaller project for complete its preliminary studies the Garrison Diversion Unit of ap-

development of the project and from Congress to mittate construction of the project facilities. Initial construction of the project is scheduled to get under way in fiscal year 1963, with the first viewed and following lands to be released four que five According in Thormation rel years after that dates it is a Criminal Management of the control of the

eived, from reliable sources in velopment of irrigations in with ashington, it is expected that Dakota under the Garrisons Diverie project report will be forward- sion Unit gradually over a period d to Congress before Jan. 1, thus from 50 to 60 years. It can be aving the way for Congressional expected that if the project is approval of the project. proved on the case of 250,000 deres

mation of the \$50000 actemproject now under consideration that the Bureau of the Budget were based on irrigable land located vin irrom the Missouri River, it has rightion districts that the been cen determined, desirable to ob- established. The ismaller invoject ain additional approval of Con- actually has a betten costibenefit ratio than the larger me million as soon as the project report acre project because certain expensive features necessary in the larger project have been eliminated.

THE Pte Chifeport under consideration of the Burgest of the irrigation of approximate of the irrigation of approximate of the irrigation of land scale of the irrigation of land scale of the irrigation of land scale of the irrigation districts in the Garrison Diversion Project area dufing the past year have been discussing repayment and additional treatment of the read of Reclamation. Those repayment contracts will the Burgest of the result of the read of the THE GARRISON Diversion Conpayment of the farmers' obligations of the cost of the Garrison Diversion Project:

Because of the extensive nature of the Garrison Diversion Unit and the many purposes that it will serve, the repayment arrangeproximately 250,000 acres in size in 1960 so that the water users'

Gen. Barney Gives Report On Wissouri Basin Works

WASHINGTON:

| Goers having an estimated fed ditional project of mated Barney, division at Gmaha, That at hear constructed or essential studiest Syntington Deale and hear constructed or essential foot for 1960 in the Missouri River Basin' is for approximately 14d with the Missouri River Basin' is for approximately 14d with the Missouri River Basin' is for approximately 14d with the Missouri River Basin' is for approximately 14d with the Missouri River Basin' is for additional work of the water with the material section and river be described by the engine of the water rojects professionated cost of \$1,330,000,000. In the basin by the engine of the water rojects professionated cost of \$1,330,000,000. In the basin to the basin by the engine.

\$112,868,000. Barney said that construction of major multiple-purpose dams and reservoirs on the main stem of the Missouri moved into the final stage in 1959 with initiation of construction on Big Bend (Dam above

Chamberlain, S. D.

ESSENTIALLY COMPLETED and operating were the Ft. Peck Dam in Montana, Garrison, in North Dakota, Ft. Randall in South Dakota and Gavins Point on the South Dakota-Nebraska bor-

Barney said major construction activity continues at Oahe Dam near Pierre, S. D. Remaining work in the dam site area there will be largely on power struc-

will be largely on power structures and the spillway.

He said construction is continuing on the fourth are fifth power generation units at the Garrison project and on the Cond, power plant at Ft. Peck 100 With addition of the South By the widdle of 1980 insel by the widdle of 1980 insel by the continuity of the cont

middle of 1960, inselved a deapacity of the main stem rid plants will be increased to 905 b killowatts.

AS OF DEC. 10: 1959, the engineers stone on the combined water stone on the stone of t reservois is stem had increased to approximately 23,800,000 acre feet, angalistofactivee million acre feet

Barney said construction prog-ress was "good" during the last year on the Missouri River bank

In 1955 the State Water Conservation Commission advanced the proposal;that investigations should be made into the possibility of constructing a low-head dam across the Missouril River near Bismarck which could take the place of the highway bridge that would be needed for the new interstate highway and at the same time provide a reservoir that would enhance the recreation use of the Missouri.

It was pointed out also that such a-sfructure would provide a stable level in the river now encountered in pumping from the river for irrigation purposes... The Corps of Engineers was directed by Congress to make a study of the pro-posal and in 1959 released its re-

THE STATE Water Commission has strongly urged the Corps of Engineers and Congress to take immediate attentio climats this erosion condition. There are several methods through which corrective action can be taken to be would be through a series of jetwould be though a series of letties and otherwises, protective works. The low head dam proposal appears to be one of the most practical, but rather than one dam, a series of sign structures would hearticely beginning a short distance to be a series of steps down the rivers of the head-waters of Oaks Reservoir waters of Oahe Reservoir.

Preliminary studies indicate that five or six structures would be required in this stretch of the river. The dams would be valuable for a number of other purposes including highway crossings.

studies that would neterinine soon as Congress approves the would be feasible. Studies by the available to makes appropriations Bureau of Reclamation have indicated a favorable cost henefit ratio and have enjaylished the feas-ibility of the smaller alved project.

BILLS WOWNER diggledere Con-

gress dealing syllbilhen modification of the authorization of the Garrison Divatsion Project. provide forethise imajor changes in the original beauthorization. These changes haves bank' bolin .

1. A change in the point of diversion to day

2. Giving authority to the Department of interior to acquire all meeded right-of-way for canals by purchase rather than by tising a reservation of canal right-of-way that was included in the patents on all land issued after 1890 for lands west of the the 10th meridian, and

3. To authorize the inclusion in the project plan for certain fish, and wildlife and recreation developments.

two to: five years after it was comfacilities.

This determination pointed out another problem that owners of the land along the Missoliri below Car son hard noted with alarm sine the Garrison Dam was placed in operation. pleted.

THE RELEASED from Gar-competically free of the silt loof that is arried in its natural state prior to the contraction of Garrison Dadi 1716 A fear water has a natural fendency to pick up silt and in so doing has caused ex-fensive erosion below the dam. Commission investigations re-

veal that from 500 to 1,000 acres of land are damaged to the fextent that they are discless by the fertent sion. It is the silt picket in by the river from crossion that would have made the reservor. In a short time it allow head damagers constructed in accordance with the Commission's 1956 proposal. Such erosion is-enother of the negative benefits from Garrison Dam to North Dakotani

of the Commissions Congress appropriated \$10,250 to the Corps of Engineers to stridy the erosion problem below Carrison and determine the best method of bank stabilization. This study is expected to be completed in 1960.

MILO W. HOISVEEN, chief engineer of the Commission, pointed out that there is a great concern on the part of landowners that another high dam will be built beother high dam will be built between the highdwaters of the Oahe
Reservoire in d Garrison D a m
thereby flooding the remaining
Missouri filter; bottomlands, in
North Dakka The lowhest dams
proposed by the Commission, he
pointed out, would raise the eyel
of the river and create the eyel excellent reservoirs but wor stor-cause it to get over its be ent-banks so very little or he sand being used would be flooded.

complete from Ransas City to the

state region of Colorado, Iowa, Kan, s.a.s.r., Missouri, Nebraska, North Dakota South Dakota and Wyoming Account will be on in continental ballistic missile con struction with codificates estimated to run in excess 1957 90 million dollars.

Current work involves 60 cod

fense installations with contracts in force totaling \$344,500,000 as of last Oct. 15.

Flood Control Control

Legal Counsel Likely To Be Named For Impending Condemnation Suits

A move to obtain legal counsel for coming condemnation proceedings was initiated last night by a group of local individuals against flood control.

Responsibility for recommending legal counsel was placed in the hands of a seven-member committee composed of Dr. Pete Madsen, Don Sump, Bert Brooks, Basil Dean, and Mrs. Stella Withrow, plus new officers of the group, M. D. Jenkins, chalfman, and Mrs. Guy Brown, secretary-treasurer.

Jenkins was elected last night to replace Drew Algeri Mrs. Brown had been serving as secretary-trea-

Mrs. Brown reported to the group a trip to Casper and a conference with Robert Rose, Casper attorney. She also read a letter from Rose, in which he said a brief would be sent the group, and in which he said that on the basis of what we knows of the case, the city can not condemn for the purposes stated, He also said he would have to come to Sheridan to examine all records.

At this point the question rose over who legal talent should be. The majority of those commenting favored employement of a local attorney or attorneys, with Rose to be employed if local attorneys desire. Some favored the hiring of Rose.

Legal counsel has become imperative for the group, particularly those along the first stage of the flood control program who have not given easements, since the city will soon file condemnation proceedings in district court.

Some of those present last night had already received letters from the cig in which an offer was more for easements, and in which a reply deadline was set.

The letter said, "In the event we do not hear from you by that

Jenkins said last night, and City Manager Maurice E. Cole confirmed the statement this morning, that the Sheridan Real Estate association, when asked, was unable to obtain appraisers from among local realtors for the city.

Don' Sump told the group, which numbered about 75 and most of whom were property owners along the first stage, not to worry about the letters, "we can find an attorney very easily."

He said he felt the main point upon which the legal fight should be waged is the issue of necessity.

Sump and Mrs. William Baertsch reported on a meeting with Cong. Keith Thomson (R-Wyo) when he was in Sheridan, Sump said, Thom-

son told them the matter is a local problem and can't be policed from Washington. Mrs. Baertsch said Thomson stated that the Army engineers are impossible, and that the engineers "would ruin us if they came in."

Drew Alger pretty well set the ton of the meeting, impressing on those present that they must fight fluod control or worse things will happen in the future. Noting Casper, where an attempt was made to pave the entire city, he said these kind of things are characteristic of council-manager government.

Sum Seeks
Project Data
Sheridan (Wyo.) press

Sheridan (Wyo.) press Will contracts be let on the first stage of the Sheridan flood control without approval of, or a plan for completing the other stages?

This question is asked of the Army engineers in a letter from Donald Sump, Sheridan man who has been among the leaders of a group fighting flood control.

Sump says in the letter, which was sent to the district engineer at Riverdale, N. D., that if the answer is "yes" then his group will proceed in efforts to keep a contract from being executed. If the answer is "no", "We will plan on having funds and other matters available for contraction of needed bridges," Sump wrote.

He wrote that the recent council-manager election made it clear the city council is interested only in the first stage, and that future councils will be involved in stages two and three.

Sump told the engineers that a "gratifying amount" of support from people who do not live near the channel, but who believe that the completion of the first stage without a plan for the balance of the project is most unsatisfactory.

"The thought of a 70-foot channel where it is not needed and no construction in all other parts of the city where a small amount of work is needed now does not make much sense," Sump wrote.

Decline Is Noted Montana Standard In Streamilow

Butte Mont: 1-13-60
HELENA (AP) — Mild and dry
December weather was listed by
the U.S. Geological Survey Tuesday as the primary cause of a
gradual decline in streamflow
throughout Montana.

However, the agency said in its monthly report on surface-water conditions, reservoir storage is above average and generally high-

er than a year ago.

Flow of streams in western Montana continued excessive and prog-

Corps Work Rushed On 2 Power Plants

RIVERDALE (AP) Home stretch work on Walfragor Missouri river power plants Hose at Garrison and Fort Peck damis and flood protection at Mindan Williston and Shefidan Wyo, will mark the 1960 construction program of Garrison District of the U.S. Army Engineers

The work as Fort Reck during 1959 and in the darly days of 1960 involves the completion of two multi-million dollar contracts for powerhouse superstructure and tunnel liners. Last year control shaft alterations and powerhouse foundations were finished under a contract exceeding \$2 million in value.

As 1959 ended, the second Fort Peck plant was about 60 per cent complete. The installation, estimated to cost in excess of \$26 million, will go into service late in 1961. It will bring the total cost of the Fort Peck project to about \$160,000.000, and boost the installed capacity of the Peck power plant to 165,000 KW.

Work at Garrison dam in North Dakota consists of completing installation of power plant units Nos. 4 and 5. Total cost of these units will run in excess of \$20 million. The two units pringing to five the number of 80,000 KW generators in Garrison's power plant, are due to go on the line this year. They bring to virtual completion the construction work somected with the \$294 million Garrison dam and

proceeding in the Sheridan County District court to acquire this need rights," Alger said in the éd land." La l'Alia -City-Attorney-Bruce Badley saidthis morning that letters had been sent to all but three property owners who have not given easements. Most of the letters were sent Dec. - 22 - and - 23, - return - receipts have bee received from most of

want. We've got to stand on

Alger reported that efforts of on

position group had delayed the

letting of contracts on the first

stage; and he expressed hope the

delay could be stretched another

Basil Dean, Sheridan man who

has been opposed to the project

from the beginning, talked briefly.

He has been proposing dredging of

the creek as a better approach to

two or three years.

the flood control.

them. A total of 27 letters are being sent. -Badley said he is ready with all legal papers and will file as soon as_directed_by_the_city_council. The filing will be made in disrict-court, and all-property-owner: will be included in a single

The city attorney said that if is normal court proceedure for the court to appoint its own appraisers He also said he plans on filing a motion for immedate possession concurrent with the filling of condemination.

.The offers contained in letters were arrived at by three city councilmen Walter Harker, N. A. Nelson and Kenneth Campbell

prairie streams of eastern Mon-11 tana 'was below median.

Contract Awarded For Power Line From Fort Peck

WASHINGTON (UPI) - Hoosier Engineering Co. of Columbus, Ohio. got a \$3,080,053 contract for work. on 310 miles of the Fort Peck-Bismarck transmission line; Sen. James E. Murray announced Monday. The contract, awarded by the

Dept. of the Interior, calls for stringing conductors and overhead ground wires for 310 miles, the Montaña Democrat said.

Work in the Fort Peck-Dawson rarea is to be completed in 270 days and in 360 days, in the Dawson Bismarck area.

Recreational dentands on Garrison and Fort Peck reservoirs continued to increase as 1960 arrived, the engineers said. For the second straight year the visitor total at-Garrison exceeded 350,000 persons in 1959. The tourists represented ·10 foreign nations and all 50 states of the Union. Fishermen comprised a large percentage of the total.

More than 150 private owners have built cottages on the Garrison shoreline lots leased from the